

**TOSHIBA**

FILE NO. 050-9901

SERVICE MANUAL

# COLOR TELEVISION

***14R01B, 14R01D, 14R01F***

***14T01B, 14T01N***

***21R01F, 21T01D, 21T01F***

# 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

## 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

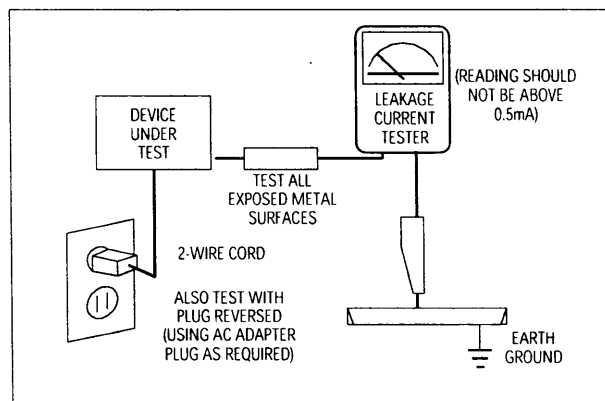




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)  
  
Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or ().  
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

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Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

## 2. Specifications and IC Data

### 2-1 Specifications

Television System:

MODEL	SYSTEM
CI	PAL-I (UHF)
CII	PAL-I (VHF/UHF)
CX	PAL-B/G, SECAM-B/G
CK	PAL-B/G, D/K, SECAM-B/G, D/K
CW	PAL-B/G, D/K, SECAM-B/G, D/K, NT 4.43
CS	PAL-B/G, D/K, SECAM-B/G, D/K, NT4.43, NT3.58

Channels:

System Band	PAL/SECAM-B/G,I	PAL, SECAM-D/K	SECAM-K1, PAL-D	NTSC-M
VHF	2 - 12	1 - 13	2 - 9	2 - 13
UHF	21 - 69	21 - 69	13 - 57	14-69

Intermediate Frequencies (MHz) :

SYSTEM IF Carrier Frequency	PAL/SECAM-B/G	PAL/SECAM-D/K, SECAM-K1	PAL-I	NTSC-M
Picture IF Carrier	38.90	38.90	38.90	38.90
Sound IF Carrier	33.40	32.40	32.90	34.40
Color Sub Carrier	34.47	34.47	34.47	35.32

Picture Tube:

14 Inch	A34KQV42X	Quick start, in-line-gun, Black stripe, 90°degree deflection
20 Inch	A48KRD82X	
21 Inch	A51KQJ63X	

Power Requirements:

AC 100-260V, 50/60Hz

Antenna Input Impedance:

VHF, UHF : Telescopic dipole antenna (75 ohm unbalanced type )

Speaker Impedance

8 ohm, 5W+5W (Dual Type)  
16 ohm, 3W (Monitor Type)

## 2-2 IC Line Up

Table 2-1 IC Line-Up			
Loc. No	Specification	Description	Remark
HC101	PAP102	IF PRE-AMP	
IC201	TDA8374A N3	PAL-B/G, SECAM-B/G, NTSC	Philips
IC202	TDA4665	1H DELAY	SECAM MODULE
IC203	TDA8395P	SECAM DECODER	
IC301	TDA8356	VERTICAL OUTPUT	
IC501	TDA6107Q	RGB DRIVE AMP	
IC601	TDA7056B	SOUND-AMP (3.5W)	Monitor Type
IC602	TDA7057AQ	SOUND-AMP (5W+5W)	Dual Type
IC801	KA3S0680R	POWER IC (STR)	
IC802	KA7630	CUSTOM REGULATOR (5V, 8V)	
IC901	SZM193EA	W/O TTX, English/French/Arabian	Zilog (Non TTX)
	SZM193EV	W/O TTX, English/Vietnames/Indonesian/Maly/Thai	
	SZM193EC	W/O TTX, English/Chinese	
	SZM191EC	W/O TTX, English/Chinese	
	SZM193EE	W/O TTX, English/German/French/Dutch/Italian/Spanish, Swedish/Romanian/Hungarian/Croatian/Polish/Russian, Czech/Bulgarian/Yugo/Greek	
	SZM191ER	W/O TTX, English/Russian (Only for Oceania model)	Philips (TTX)
	SPM197EE	TTX, West : English/German/French/Dutch/Italian/Spanish/Swedish East : English/Czech/Croatian/Romanian/Hungarian/Polish	
	SPM197ER	TTX, English/Russian/Bulgarian	
	SPM197EP	TTX, English/Iranian	
	SPM197EA	TTX, English/French/Arabian	
	SPM197EG	TTX, English/Greek/Yugo	
IC902	24C04	EEPROM	
IC903	KiA7042P	RESET IC ,W/O TTX Model	Zilog
	KiA7442P	TTX Model	Philips
IC401	KA7812	REGULATOR (12V)	

## 2-3 Semiconductor Base Diagrams

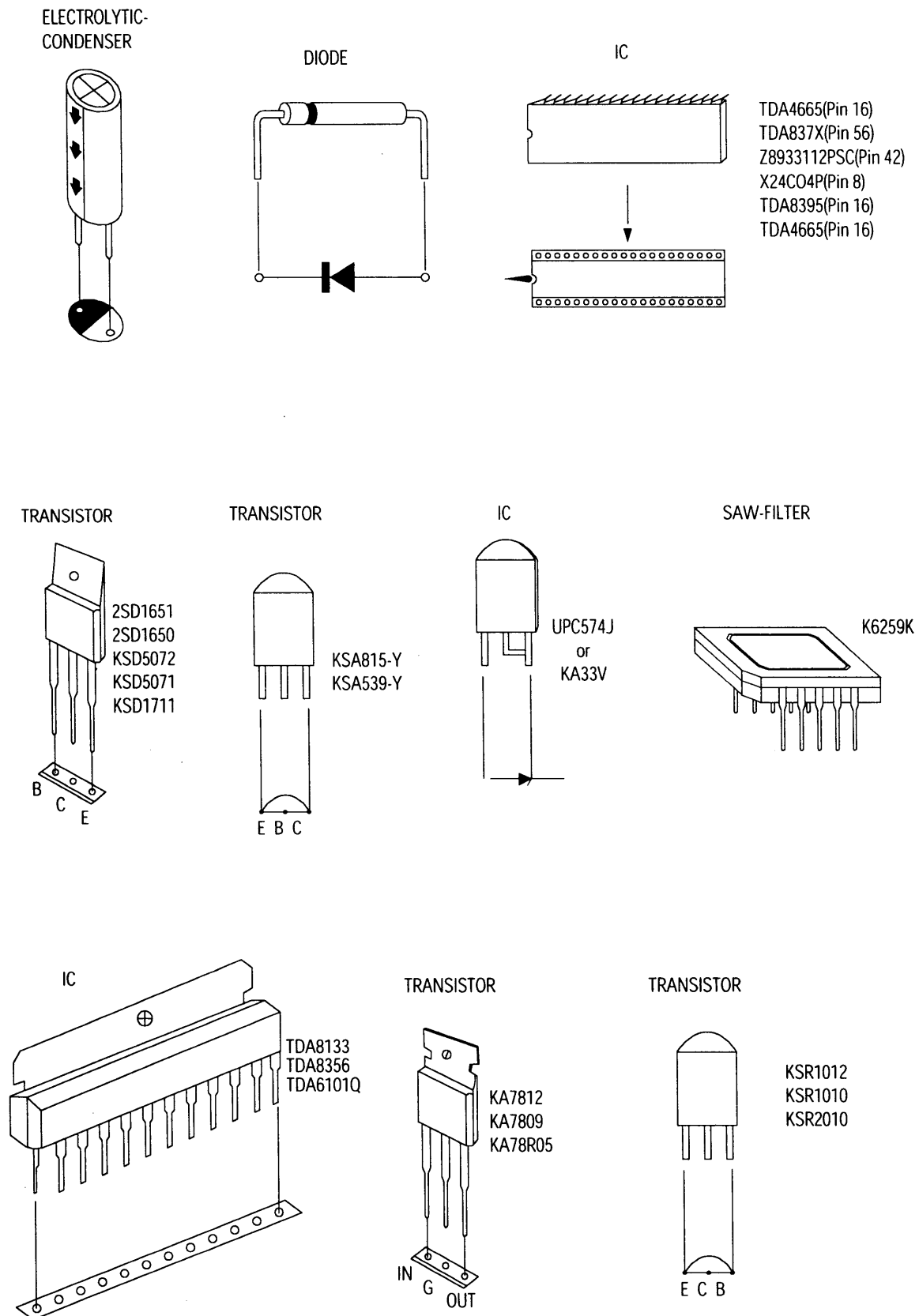


Fig. 2-1 Semiconductor Base Diagrams

# MEMO

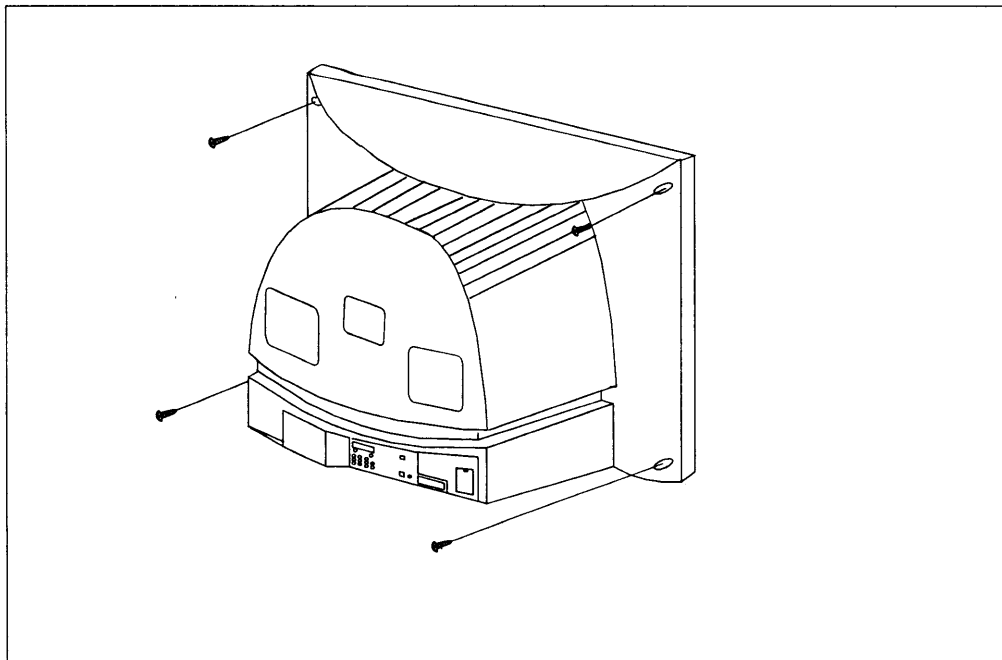
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## 3. Disassembly and Reassembly

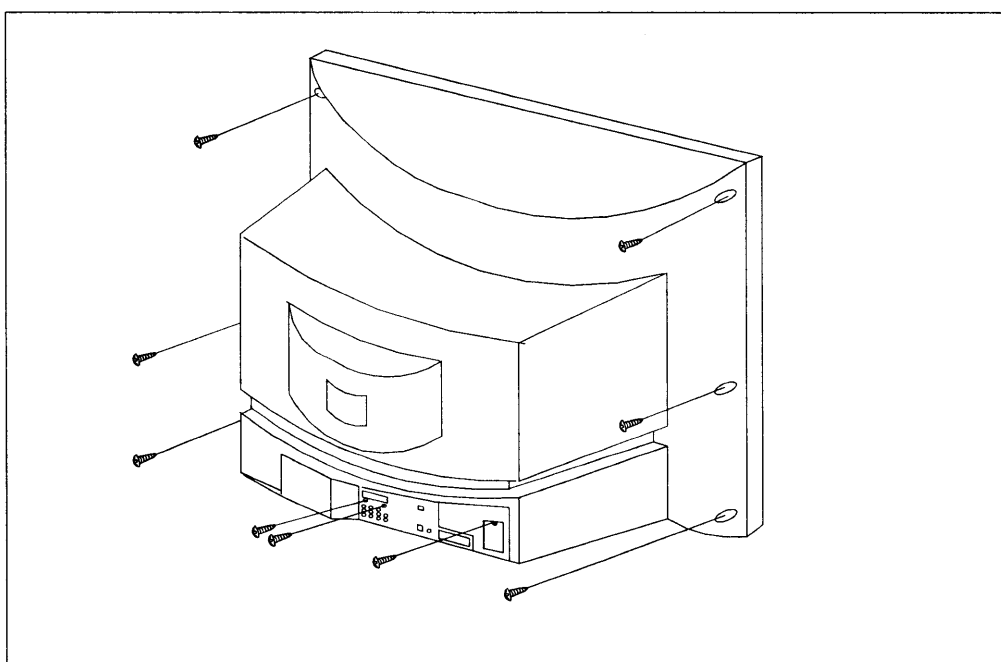
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### 3-1 Back Cover Removal

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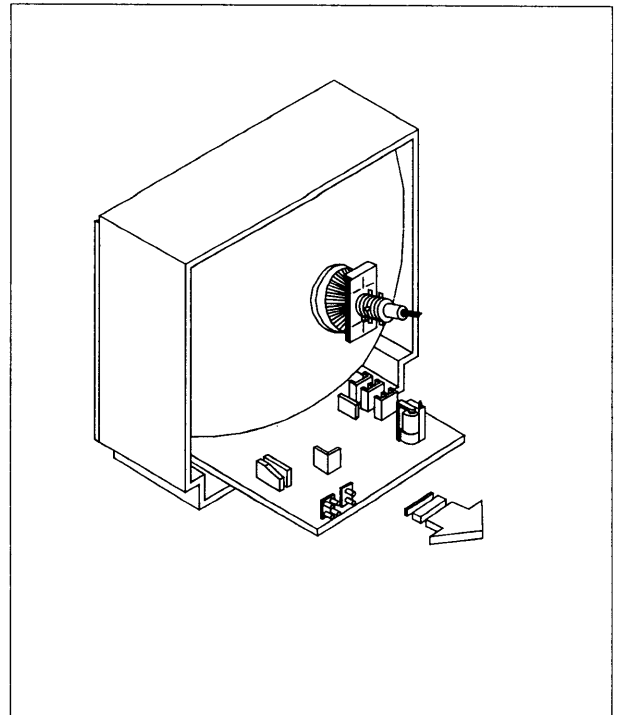
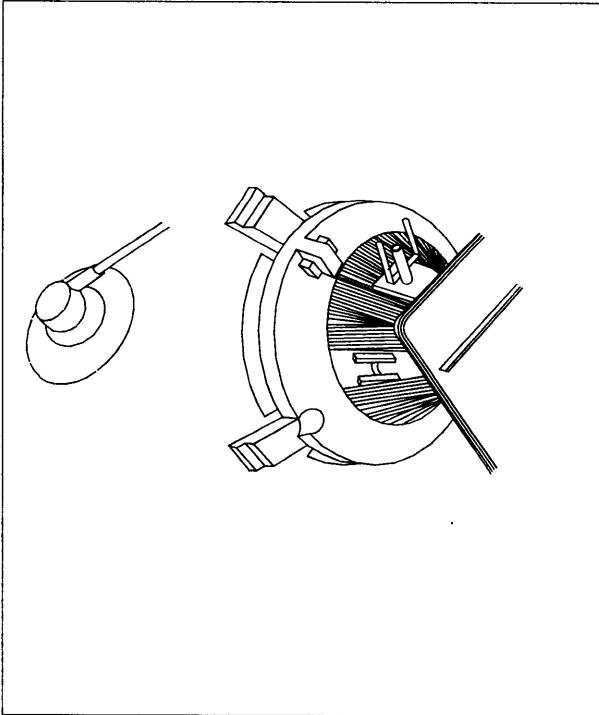


1. After removing the screws, press the tension rib and pull the cabinet backwards.
2. To reassemble, press the tension rib (see diagram).



### 3-2 Main Board Removal

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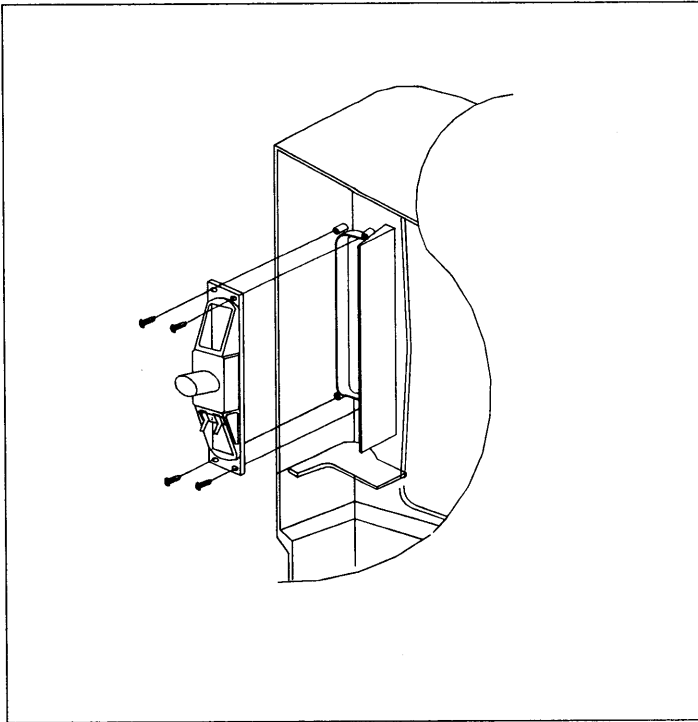


1. Separate the socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. Remove the main board by pulling it with both hands.

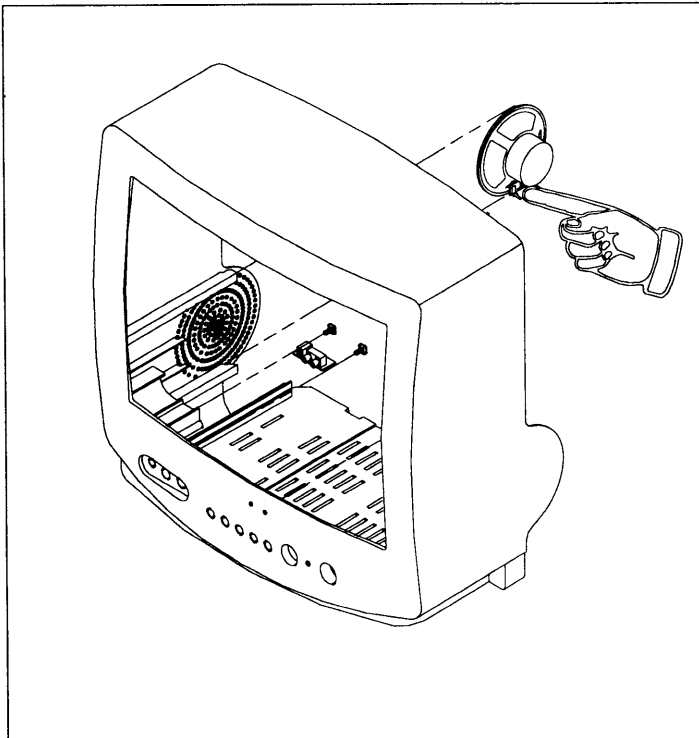
**Warning:** The FBT is charged with high voltage.  
Before removing the Anode Cap, discharge the voltage  
through one of the heat sinks on the main board.

### 3-3 Speaker Removal

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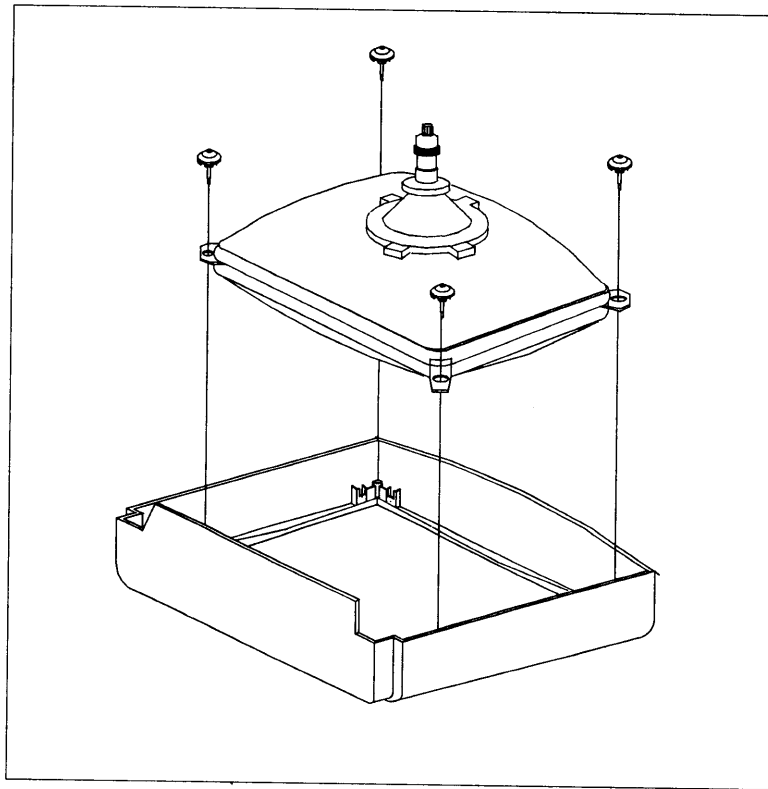
1. Remove the speaker by pressing the tension rib.



1. Remove the screws.
2. Remove the speaker by pressing the tension rib.

### 3-4 CRT Removal

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1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 nuts mounting the CRT to the front cabinet. Lift the CRT.
3. Caution: Because of the high vacuum and large surface area of the picture tube, be careful while handling it: (1) Always lift the picture tube by grasping it firmly around the faceplate, (2) Never lift the tube by its neck. (3) Do not scratch the picture tube or apply excessive pressure. Fractures of the glass may cause an implosion.

## 4. Alignment and Adjustments

### 4-1 Preadjustment

#### 4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

#### 4-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC902 is replaced, warm up the TV for 10 seconds.

#### 4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence :

White Balance  
Sub-Brightness  
Vertical Center  
Vertical Size  
Horizontal Size  
Fail Safe (This adjustment must be the last step).

2. If the EEPROM or CRT is replaced, set PVA to 45 (factory mode) and set SC as follows.

14, 16 inch : 0  
20 inch : 10  
21 inch : 12

### 4-2 Factory/Service Mode

#### 4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated by entering the following remote-control sequence :
  - (1) SLEEP→FACTORY.
  - (2) STAND-BY→DISPLAY→P.STD→MUTE→POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: Adjustment, Test Pattern, Option Bytes and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys ( Up or Down). The adjustment parameters are listed in the accompanying table, and selected by pressing the CHANNEL keys (▲, ▼).
4. Selection sequences for the all system:
 

DOWN or UP key:

AGC>VCO>SBT>SCT>SCR>SC>RG>GG>  
BG>CDL>BLU>PSL>PVS>PVA>PHS>NSR>  
STT
5. The VOLUME keys increase or decrease the adjustment values (stored in the non-volatile memory) when Adjustment Mode is cancelled.
6. Cancel the Adjustment Mode by re-pressing the "FACTORY" or "Power OFF" keys.

## 4-2-2 Main Adjustment Parameter

Item	Description	Application Model	S15A Chassis				Remark
			N-TTX	TTX	Adjustment	Application Model	
AGC	Auto Gain Control	CF	14	14	FIXED		
		CB,CI,CI,CK	10	10	FIXED		
VCO	VCO	ALL	80	80	FIXED	ALL	MUST = "80"
LCO	LCO	ALL	1	1	FIXED	ALL	MUST = "1"
SBT	Sub-Brightness	14-INCH	10	10	ADJ	LY:1.5fl	
		21-INCH	10	10	ADJ	LY:2.0fl	
SCT	Sub-Contrast	14-INCH	10	10	ADJ	HY:14-INCH=45fl	
		21-INCH	10	10	ADJ	HY:21-INCH=40fl	
SCR	Sub-Colour	ALL	6	6	FIXED		
TSC	TTX Sub-Contrast	ALL	***	13	FIXED		
SC	S-Correction	14-INCH	0	0	FIXED		
		21-INCH	12	12	FIXED		
RG	Red Drive Gain	ALL	32	32	ADJ	WHITE BALANCE ADJUSTMENT	
GG	Green Drive Gain		32	32	FIXED		
BG	Blue Drive Gain		32	32	ADJ		
CDL	Cathode Drive Level	14-INCH	3	3	FIXED		
		21-INCH	3	3	FIXED		
BLU	Blue Stretch	ALL	0	1	FIXED		
PSL	PAL Vertical-Slope		26	26	ADJ		
PVS	PAL Vertical-Shift		38	38	ADJ		
PVA	PAL Vertical-Amplitude		45	45	FIXED		
PHS	PAL Horizontal-Shift		48	48	ADJ		
NSR	NTSC Sub-Colour		7	7	FIXED		
STT	Sub-Tint for NTSC		8	8	FIXED		

### 4-2-3 Test Pattern (Aging Mode)

1. This mode can be used during servicing, or for confirming that the convergence and purity adjustments are correct.
2. Access the Test Pattern parameters by pressing a CHANNEL keys (▲, ▼) while the Service Mode is on. The cursor will move to the test pattern. Press the VOLUME keys. On-screen display:

• WHITE — NON -TTX MICOM ONLY

• AGING — TTX MICOM

#### 3. AGING Mode (Reference Only)

This pattern is used for pre-heating the CRT during manufacturing—it is accessed in the factory by twice pressing the “SLEEP → FACTORY→FACTORY” key, then white pattern will be displayed.

Even if the TV power is cut off, the Aging Mode is not cancelled, The aging mode is cancelled by repressing the “FACTORY” key or pressing the local “CH UP/DOWN” keys.

### 4-2-4 Option Bytes

In the Service Mode, various can be selected via the Option Bytes (8 bits each). Example:

SYSTEM OSD DISPLAY		BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0 : 8	-			L (BIT : 0)	H (BIT : 8)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)
BYTE 1 : 0	-	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)

TDA8842, CK SYSTEM, RCA JACK SYSTEM OSD DISPLAY

BYTE 0 : 11	—————	L (BIT : 1)	H (BIT : 0)	L (BIT : 0)	H (BIT : 0)	L (BIT : 1)
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## 4-2-4 (A) OZM - 521TO TOSHIBA N - TTX

BYTE	BIT	LOW (0)	HIGH (1)	Remark	SEL	Value
B Y T E 0	D7	3 BAND	UHF ONLY	UK (only): High, Others: LOW	0	0
	D6	R/F : NORMAL → ZOOM A/V : NORMAL → ZOOM	R/F : NORMAL → ZOOM → 16:9 A/V : NORMAL → ZOOM	MUST HIGH	0	0
	D5	- R913 : 680Ω added, - J901 : delete (for Poland)		MUST LOW	0	0
	D4	CH Up/down functional in the A/V Mode (SCART Jack)	CH Up/down not functional in the A/V Mode (RCA Jack)	MUST LOW	0	0
	D3	NOT USED	NOT USED	MUST LOW	0	0
	D2	COLOR SYSTEM	SOUND SYSTEM	Remark		
		0 0	NOT USED			
	D1	AUTO : NO OSD	* CI/CI-SYSTEM I ONLY (NO OSD)	United Kingdom	0	0
		1 0	* CB,CF-SYSTEM CB,CF (NO OSD)	Western Europe		FALSE
	D0	NOT USED	NOT USED		0	0
		1 1				
B Y T E 1	D7	TDA8374A	TDA8842	IC201(ONE-CHIP) OPTION	0	0
	D6	NOT USED	Eng/Ger/Fre/Duc/Itly/Spe/Swe/Cro/Eugo/Greek	Western Europe (OZM-521TO)	0	0
	D5	AFT ON (always)	AFT OFF (after fine tuning)	MUST = LOW	0	0
	D4	Existing sharpness level (when using the TDA6108 RGB AMP)	Sharpness level up (when using the TDA6107Q RGB AMP)	BASIC = LOW	0	0
	D3	No Auto Power ON	Auto Power ON	BASIC = HIGH	0	0
	D2	NTSC : 25KHz(NTSC TABLE),PAL : 50KHz(PAL TABLE)	NTSC : 25KHz(NTSC TABLE),PAL : 27KHz(NTSC TABLE)	BASIC = HIGH	0	0
	D1	PAL/SECAM	SECAM-L	HIGH (only for France/Swiss)	0	0
	D0	NOT USED	NOT USED	MUST = LOW	0	0
	Function Required	1. PICTURE OFF (after 15 minutes) during no signal	Destination	Value		
		2. AUDIO MUTE (during no signal)	United Kingdom (CI)	BYTE0	BYTE1	
		3. NO R/F BLUE SCREEN, A/V available	France/Swiss	0	0	0
			Western Europe (except UK)			
			Ireland (CI)	43	98	

## 4-2-4 (B) OPM - 515EE TOSHIBA TTX

NO	Item	OPTION SELECT	Function	Remark
1	ZOOM MODE	16.9 OFF	NORMAL → ZOOM	MUST = ON (TRANSMITTER P-SIZE OPTION)
		16.9 ON	NORMAL → ZOOM → 16.9	
2	LANGUAGE	EUROP	English/German/French/Dutch/Spanish/Italian/Swedish	Eastern/Western Europe (AREA OPTION SELECT)
3	AREA		English/Czech/Croatian/Rumanian/Hungarian/Polish	
		WEST	English → German → French → Dutch → Spanish → Italian → Swedi	MUST = WEST (English/German/French/Dutch/Spanish/Italian/Swedish)
		EAST	English → Czech → Croatian → Rumanian → Hungarian → Polish	Eastern Europe (English → Czech → Croatian → Rumanian → Hungarian → Polish)
4	POWER	ON	DIRECT PICTURE ON (Not available after Factory Reset)	MUST = ON (MASTER SWITCH INPUT OPTION) Not available (when using Transmitter OFF)
		OFF	PICTURE STAND-BY MODE	
5	SYSTEM(SOUND)	Cf	NO OSD DISPLAY	France
		Cl	NO OSD DISPLAY (PAL-I United Kingdom UHF ONLY)	United Kingdom
		CK	? °E B/G °E D/K(PAL-SECAM-B/G,D/K,NT4.43,NTPB)	Not Used (For Eastern Europe and Russia)
		CX	NO OSD DISPLAY	Not Used
		CB	NO OSD DISPLAY (PAL-B/G,NT4.43,NTPB)	For Western Europe
		Cil	NO OSD DISPLAY	Ireland
		SCART	CH Up/Down functional in the A/V Mode (SCART JACK)	MUST = SCART
		RCA	CH Up/Down not functional in the A/V Mode (RCA JACK)	
7	VOLUME TBL	PAL	NTSC:25KHz(NTSC TABLE), PAL:27KHz(NTSC TABLE)	MUST = PAL
		NTSC	NTSC:25KHz(NTSC TABLE), PAL:50KHz(PAL TABLE)	
8	AFT	ON	AFT ON (after fine tuning)	MUST = ON (when Channel Change and Picture OFF/ON)
		OFF	AFT OFF (after fine tuning)	
Others		1. PICTURE OFF (after 15 minutes) during no signal		
		2. AUDIO MUTE (during no signal)		

## 4-2-5 RESET

The Reset Mode is used during factory inspection.  
Function Reset:

- |                |           |
|----------------|-----------|
| 1. Channels    | Add/Erase |
| 2. Sort        | Non       |
| 3. System      | Auto      |
| 4. Timer       | off       |
| 5. Blue Screen | off       |
| 6. Child Lock  | off       |
| 7. Picture     | standard  |
| 8. Volume      | 10        |
| 9. CH. Skip    | Erased    |

## 4-3 Other Adjustments

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### 4-3-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

### 4-3-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 30 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

### 4-3-3 High Voltage Check

CAUTION: There is no high voltage adjustment on this chassis. The B+ power supply must be set to +125 volts (Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 27.5KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 27.5KV under any conditions.

### 4-3-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

### 4-3-5 Cathode Voltage Adjustment (Screen Adjustment)

1. Connect CRT socket pin GK to an oscilloscope probe.
2. Input a gray scale pattern. (Use a pattern generator, PM5518)
3. Use the P mode key (on the remote control) for the STANDARD picture.
4. Adjust the Screen VR (on the FBT) so that the voltage on the oscilloscope becomes  $130 \pm 2.5V$  (See Fig. 4-1).

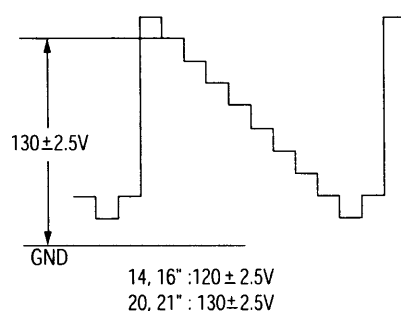


Fig. 4-1

### 4-3-6 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 4-2.
4. Input a black and white signal.
5. Fully demagnetize the receiver by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 4-3).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

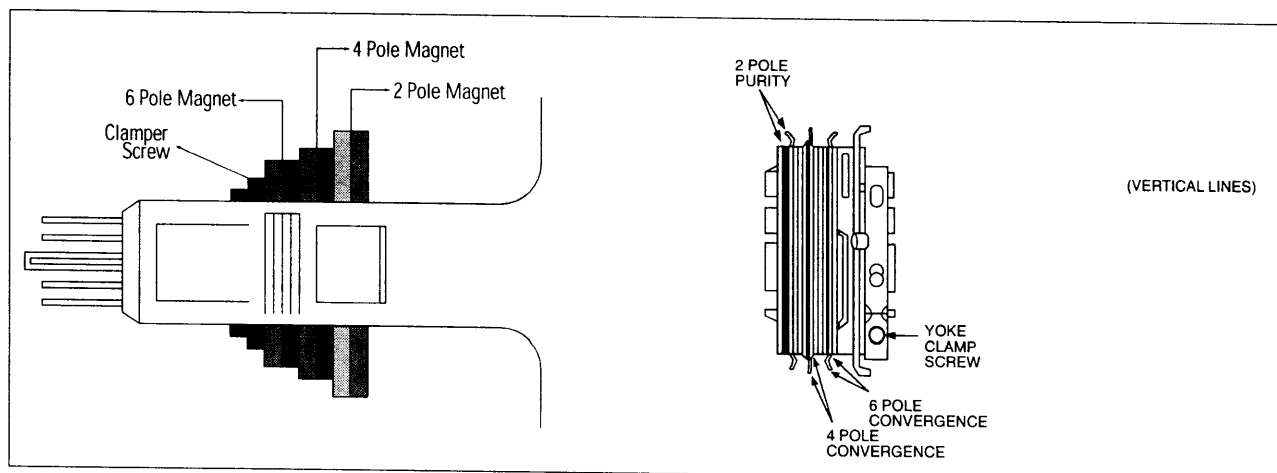


Fig. 4-2 Convergence Magnet Assembly

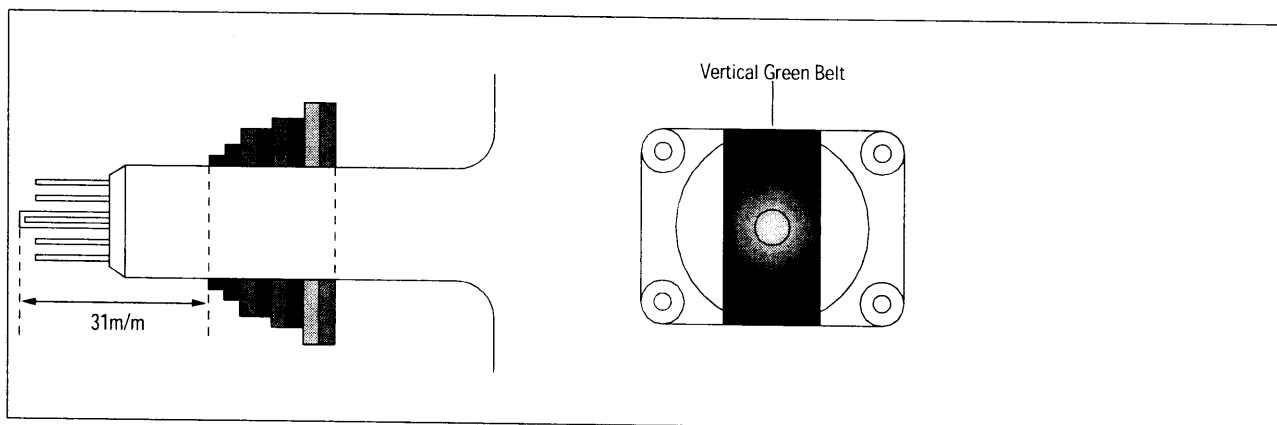


Fig. 4-3 Center Convergence Adjustment

### 4-3-7 White Balance Adjustment

#### (a) Set up

1. Warm up the TV for at least 30 minutes in the Aging Mode (OSD White). This mode is displayed by entering the following sequence:

SLEEP → FACTORY → FACTORY

2. Input a Toshiba pattern.

#### (b) Low-Light Adjustment

1. Set SBT to  $1.3 \pm 0.2$  fL in the Factory Service Mode with using CA100. See Fig. 4-4 ②.
2. Adjust RG,BG so that the levels are suitable to each local area.

#### (c) High-Light Adjustment

1. Set SCT to 55 FL (20". 21"), 65 FL (14". 16") in the Factory Service Mode with using CA100. See Fig. 4-4 ①.

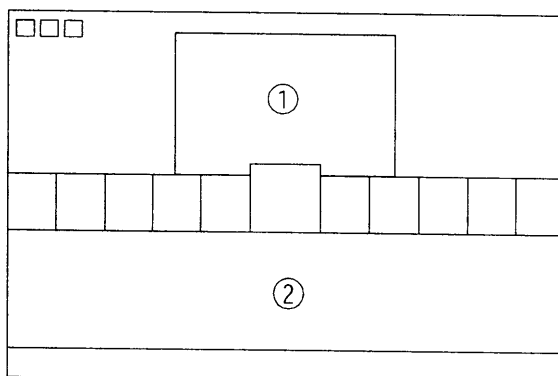


Fig. 4-4

### 4-3-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4 pole magnets to change the angle between them. Superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the Brightness and Contrast controls for a well defined picture.
4. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
6. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
7. Repeat adjustments 2~6, if necessary.
8. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 4-5).

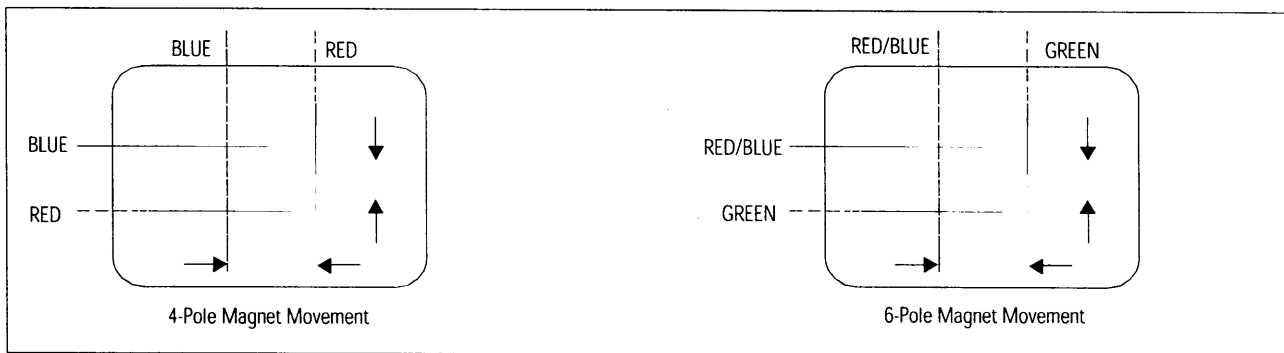


Fig. 4-5 Center Convergence Adjustment

### 4-3-9 VCO Adjustment

Set the vco data to 80 (Factory Mode).

NOTE : For SZM-173EW and SPM-175E (Western Europe remote control), set the VCO data to 1.

#### 4-3-10 RF AGC Adjustment

Set the AGC data to 14 (Factory Mode).

#### 4-3-11 Sub-Color Adjustment

Set SCR data to 10 (Factory Mode).

#### 4-3-12 Geometry Adjustment

SC → PVA → PVS → PSL → PHS

1. Input a lion head pattern (in the PAL channel).
2. Set the SC (S-Correction) as follows : 12 (21"), 10 (20"), 0 (14", 16") and PVA 40 so that the lion head circle becomes oval.
3. Adjust with PVS (Vertical shift) so that the top margin of the picture is 4.

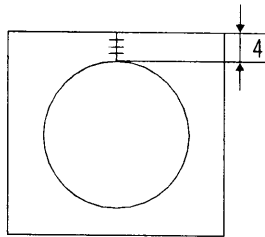


Fig. 4-7

4. Adjust with PSL (Vertical-Slope) so that the bottom margin of the picture is 4.

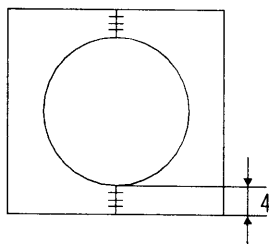


Fig. 4-8

5. Adjust with PHS (Horizontal Shift) so that the lion-head pattern and CRT centers are aligned.

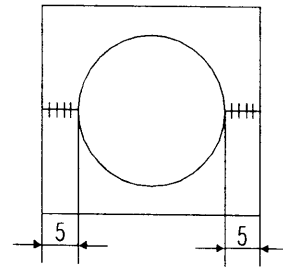


Fig. 4-9

6. Adjust PHS (using the width coil) so that the left and right margins of the picture are 5.

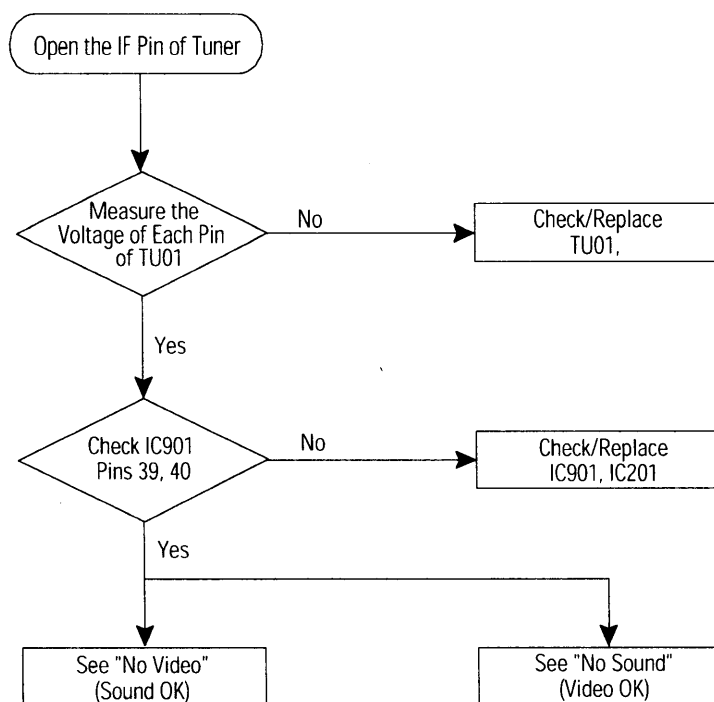
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## 5. Troubleshooting

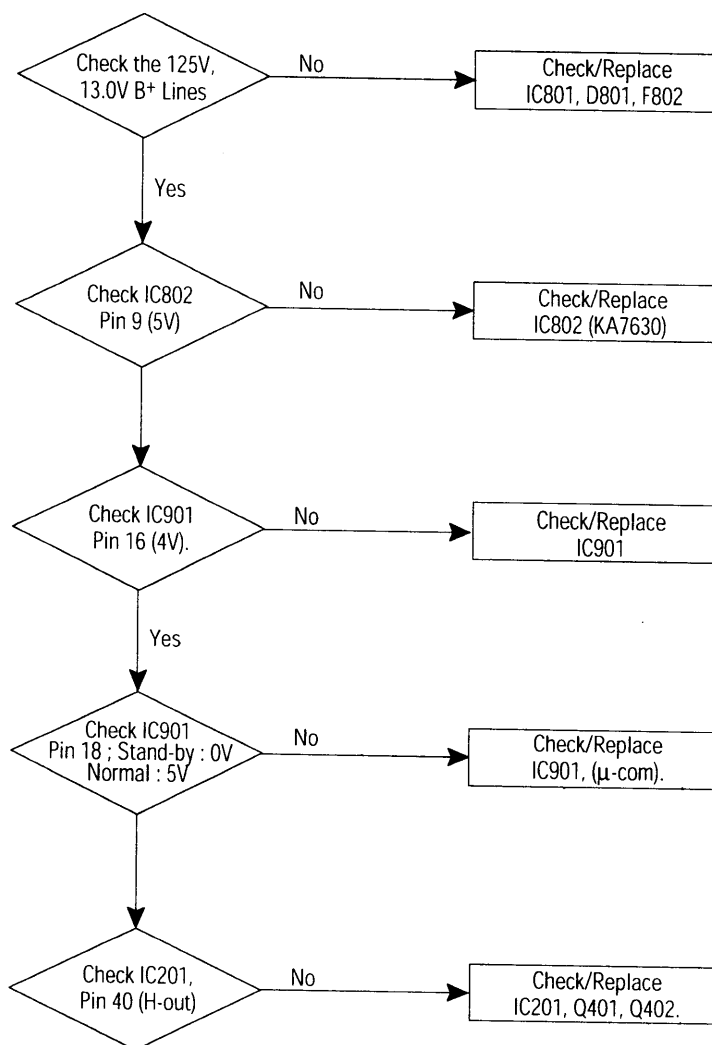
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### 5-1 No Video (Raster On, No Sound)

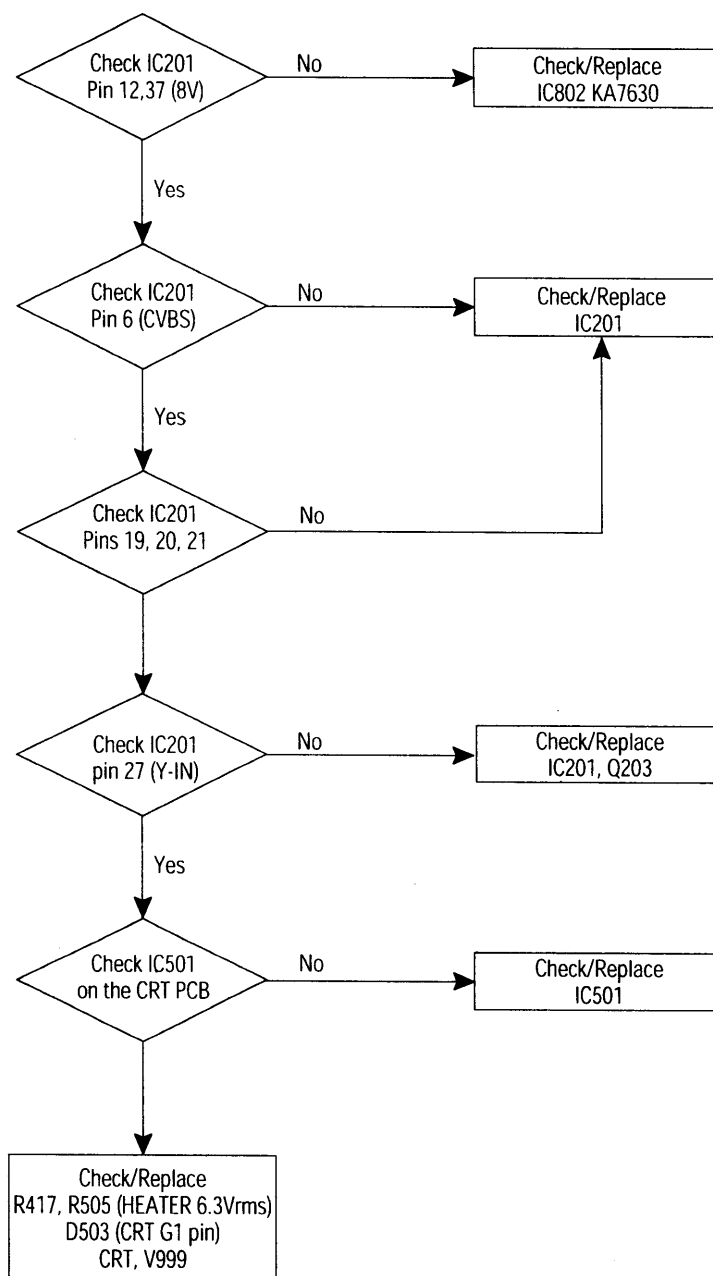
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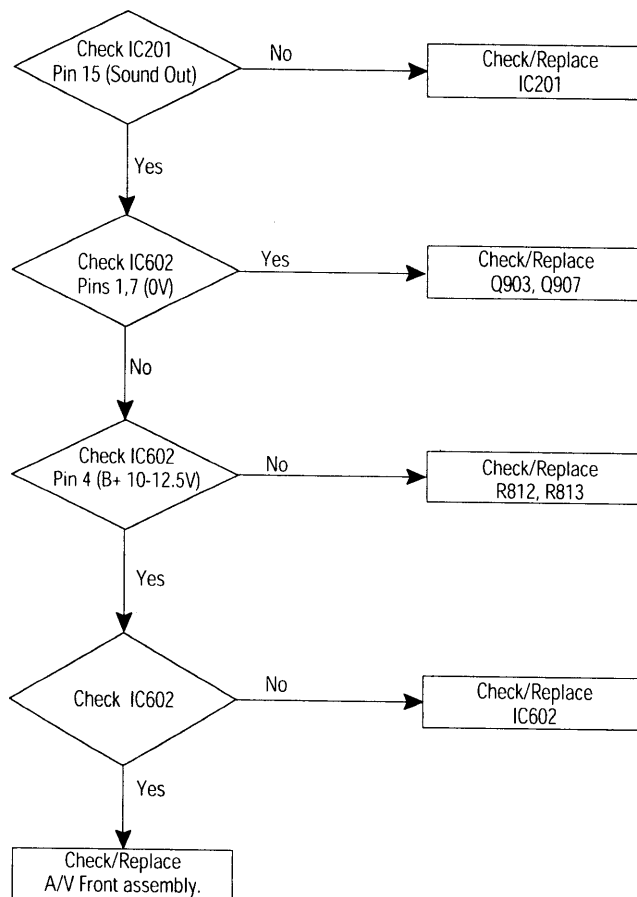
## 5-2 No Power



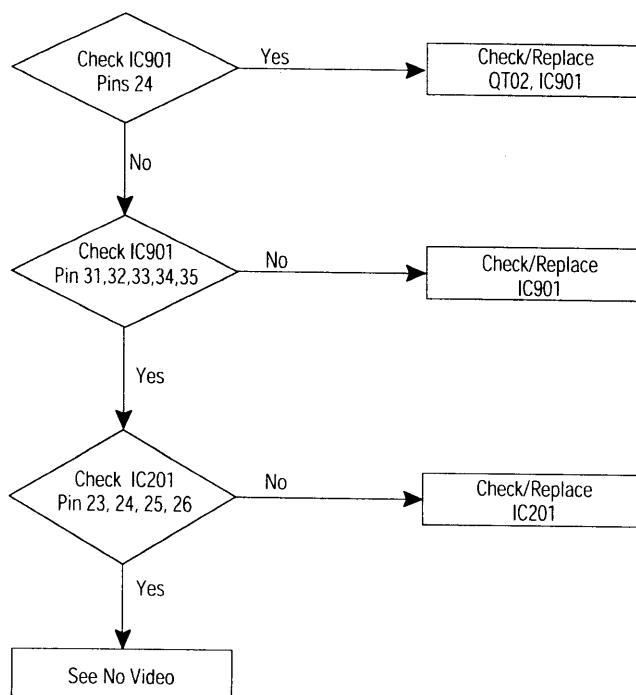
# **5-3 No Video (Sound OK)**



## 5-4 No Sound (Video OK)

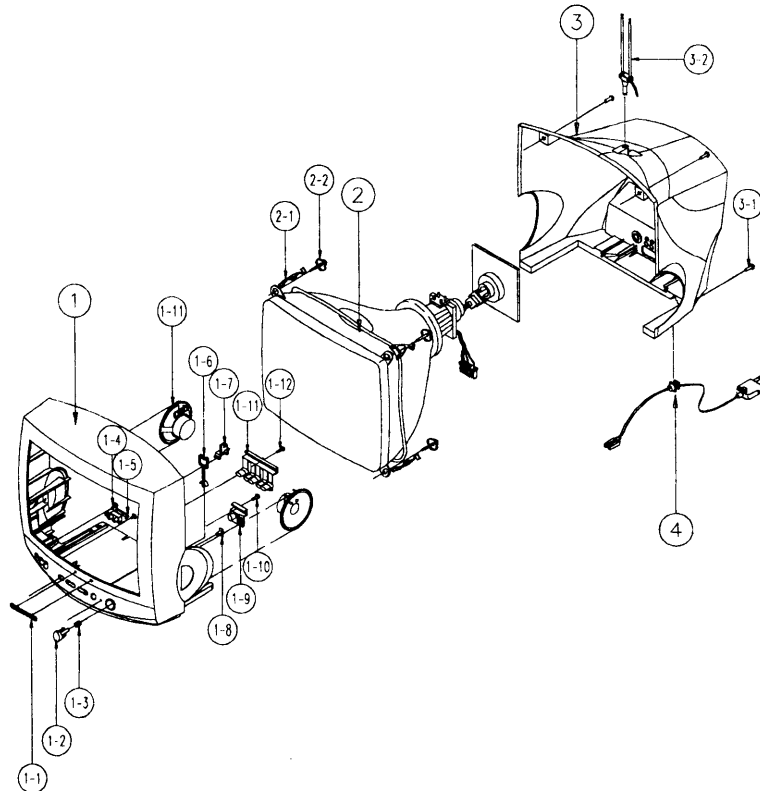


## 5-5 No TTX



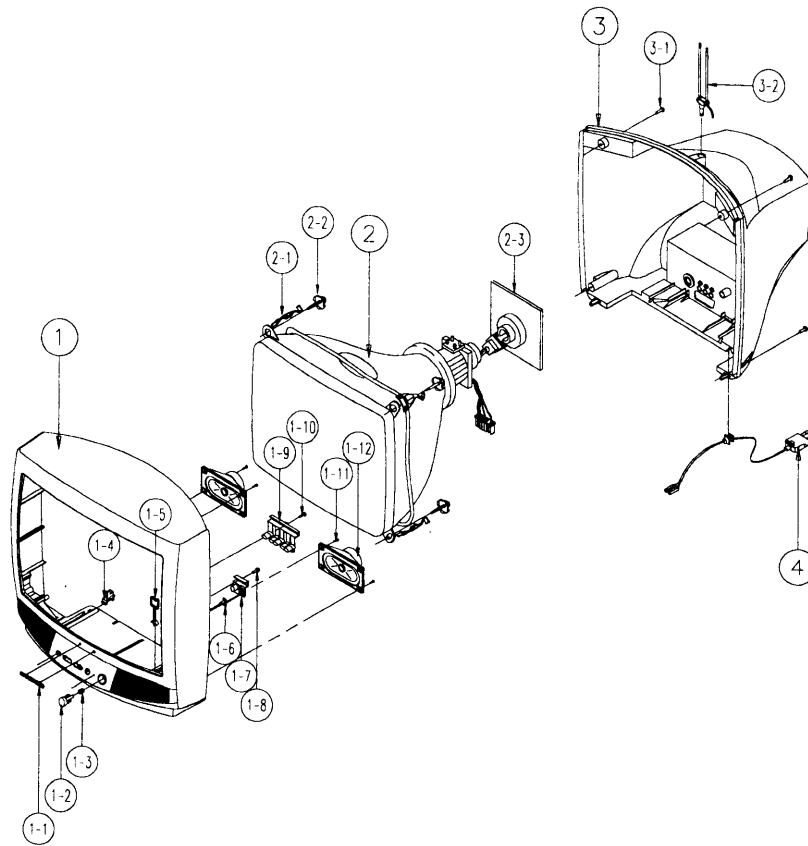
## 6. Exploded View & Parts List

### 6-1 CB14T01N5X



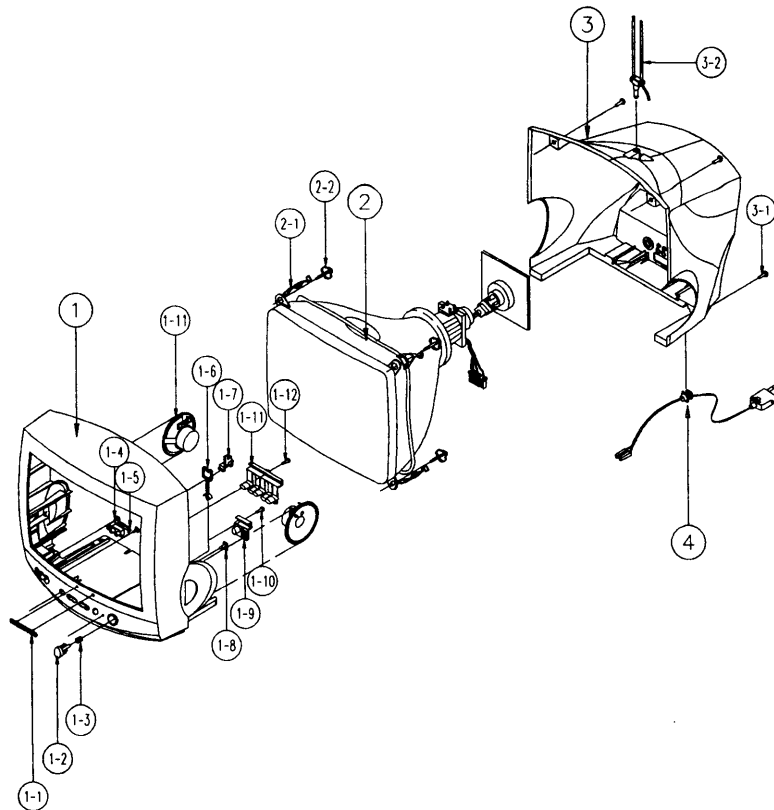
Loc.No	Replacement No.	Parts No.	Description;Specification	Q'ty	Remarks
1	AZ760047	HA91-00225A	ASSY-CABINET,FRONT;-;14R01,-,-,-,-	1	
	AZ760012	HA64-00568A	CABINET-FRONT;-;14R01,-,HIPS,HB,DARK-GRAY,-	1	
1-1			CABINET-FRONT OPTION		
1-2	AZ760015	HA64-00418B	KNOB-POWER;-;14R01,-,ABS,HB,BLK,D/GRAY	1	
1-3	AZ760018	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-,-,-	1	
1-4	AZ760039	6003-001024	SCREW-TAPTITE;RWH,+,B,M4,L12,ZPC(YEL),SWRCH1	2	
1-5	AZ660016	HA95-900017	ASSY-PCB,A/V FRONT;S15A,TSB	1	
1-6	AZ760050	AA65-30018A	CLAMP-WIRE,NYLON-66,-,-,DATL-600,DONG-A,-	1	
1-7			CABINET-FRONT OPTION		
1-8	AZ760020	AA64-00420B	INDICATOR-LED;-;14R01,-,ACRYL,HB,CLR,-	1	
1-9	AZ760013	AA64-00419B	WINDOW-REMOCON;-;14R01,-,PC,V0,VIOLET,-	1	
1-10	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
1-11	AZ760014	HA64-00427B	KNOB-CONTROL;-;14R01,-,ABS,HB,BLK,D/GRAY	1	
1-12	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
1-13	AZ664078	3001-000275	SPEAKER;2.5W,16ohm,90dB,105Hz	2	
2	AZ664048	AA03-10023X	CRT-COLOR;-;A34EAC01X06,+380mG,14,90DEG	1	
2-1	AZ760010	AA65-30106A	CLAMP-D,COIL,NYLON 66,V2,NTR,-,14 INCH,-	4	
2-2	AZ760040	AA60-10051D	SCREW-ASSY;WC,HH,+,M5,30,SWRCH18A,ZPC,-	4	
2-3	AZ664047	3704-001089	SOCKET-CRT;7P,22.5PI,12PI,SN,-	1	
3	AZ760001	HA64-00571A	CABINET-BACK;-;14R01,-,HIPS,V0,BLK,-,-	1	
3-1	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	4	
3-2	AZ664064	AA42-10001V	ANT-ROD;-;3S,620mm,BRN,UL/CSA	1	
4	AZ664079	HA39-010001	POWER-CORD;DP,CP3,-,2.4M,BLK,AC250V,10A	1	

## 6-2 CF21R01F5X



Loc.No	Replacement No.	Parts No.	Description;Specification	Q'ty	Remarks
1	AZ760048	HA91-00226A	ASSY-CABINET,FRONT;-;21R01,-,-,-	1	
	AZ760028	HA64-00569A	CABINET-FRONT;-;21R01,-,HIPS,HB,DARK-GRAY,-,	1	
1-1			CABINET-FRONT;OPTION TOSHIBA	1	
1-2	AZ760030	HA64-00423B	KNOB-POWER;-;21R01,-,ABS,HB,BLK,D/GRAY	1	
1-3	AZ760018	AA61-60003J	SPRING-CS;-;SUS304,0.5,0D6,H12,N7,-,-,-	1	
1-4	AZ760032	AA61-40007A	STOPPER-PCB;5038.5368,ABS HB,NTR,-,-,-	1	
1-5	AZ760035	AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODEL	1	
1-6	AZ760034	AA64-00430B	INDICATOR-LED;-;21R01,-,ACRYL,HB,CLR,-	1	
1-7	AZ760033	AA64-00428B	WINDOW-REMOCON;-;21R01,-,PC,V0,VIOLET,-	1	
1-8	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
1-9	AZ760029	HA64-00426B	KNOB-CONTROL;-;21R01,-,ABS,HB,BLK,D/GRAY	1	
1-10	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
1-11	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	4	
1-12	AZ664037	3001-001039	SPEAKER;3W,16ohm,90dB,180Hz	1	
2	AZ664107	AA03-00091A	CRT-COLOR;A51EER133X77,BARE,+,400MG,21,9	1	
2-1	AZ760026	AA65-30107A	CLAMP-D.COIL;NYLON 66,V2,NTR,-;20~22 INCH,-	4	
2-2	AZ760040	AA60-10051D	SCREW-ASSY;WC,HH,+,M5,30,SWRCH18A,ZPC,-	4	
2-3	AZ664015	3704-001090	SOCKET-CRT;9P,15.24PI,26.5PI,SN,-	1	
3	AZ760022	HA64-00572A	CABINET-BACK;-;21R01,-,HIPS,V0,BLK,-,-	1	
3-1	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	4	
3-2			ASSY-ACCESSORY OPTION	1	

## 6-3 CI14R01B5X



Loc.No	Replacement No.	Parts No.	Description;Specification	Q'ty	Remarks
1	AZ760047	HA91-00225A	ASSY-CABINET,FRONT;-;14R01,-,-,-	1	
	AZ760012	HA64-00568A	CABINET-FRONT;-;14R01,-,HIPS,HB,DARK-GRAY,-	1	
1-1			CABINET-FRONT OPTION		
1-2	AZ760015	HA64-00418B	KNOB-POWER;-;14R01,-,ABS,HB,BLK,D/GRAY	1	
1-3	AZ760018	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-,-,-	1	
1-4	AZ760039	6003-001024	SCREW-TAPTITE;RWH,+,B,M4,L12,ZPC(YEL),SWRCH1	2	
1-5	AZ660016	HA95-900017	ASSY-PCB,A/V FRONT;S15A,TSB	1	
1-6	AZ760050	AA65-30018A	CLAMP-WIRE;NYLON-66,-,-,DATL-600,DONG-A,-	1	
1-7			CABINET-FRONT OPTION		
1-8	AZ760020	AA64-00420B	INDICATOR-LED;-;14R01,-,ACRYL,HB,CLR,-	1	
1-9	AZ760013	AA64-00419B	WINDOW-REMOCN;-;14R01,-,PC,V0,VIOLET,-	1	
1-10	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
1-11	AZ760014	HA64-00427B	KNOB-CONTROL;-;14R01,-,ABS,HB,BLK,D/GRAY	1	
1-12	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	1	
1-13	AZ664078	3001-000275	SPEAKER;2.5W,16ohm,90dB,105Hz	2	
2	AZ664048	AA03-10023X	CRT-COLOR;-;A34EAC01X06,+380mG,14,90DEG	1	
2-1	AZ760010	AA65-30106A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,14 INCH,-	4	
2-2	AZ760040	AA60-10051D	SCREW-ASSY;WC,HH,+,M5,30,SWRCH18A,ZPC,-	4	
2-3	AZ664047	3704-001089	SOCKET-CRT;7P,22.5PI,12PI,SN,-	1	
3	AZ760001	HA64-00571A	CABINET-BACK;-;14R01,-,HIPS,V0,BLK,-,-	1	
3-1	AZ760005	6003-001026	SCREW-TAPTITE;RH,+,2,M4,L15,ZPC(BLK)SWRCH18	4	
3-2	AZ664064	AA42-10001V	ANT-ROD;-;3S,620mm,BRN,UL/CSA	1	
4	AZ664079	HA39-010001	POWER-CORD;DP,CP3,-,2.4M,BLK,AC250V,10A	1	

# MEMO

## 7. Electrical Parts List

### 7-1 CB14R01D5X/TSB(CB14R01D5X and CB14T01N5X Dissimilar Parts)

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
ASSY-PCB,MAIN(OPT)					REMOCON				
*	HA94-01779A	AZ660026	ASSY-PCB,MAIN(OPT);CB14R01,S15A/D,TSB,PH		*	AA59-00088A	AZ660008	REMOCON,DP,TM59,AA59-00082A,.....	
C905	2401-001333	AZ164022	C-AL,470nF,20%,50V,GP,TP,5x1115		ASSY-ACCESSORY				
C908	2201-000193	AZ163003	C-CERAMIC,DISC,10pF,0.3pF,50V,CH,TP,5x3,		HA68-00621A	AZ664102	MANUAL-USERS,S15A,A/P80(G),GERMAN,TSB,NO		
C909	2201-000193	AZ163003	C-CERAMIC,DISC,10pF,0.3pF,50V,CH,TP,5x3,		HA68-00622A	AZ664103	MANUAL-USERS,S15A,A/P80(G),ITALIAN,TSB,N		
C916	2301-000247	AZ163005	C-FILM,PEF,33nF,5%,50V,TP,8.1x4.5x13mm,5		HA68-00623A	AZ664104	MANUAL-USERS,S15A,A/P80(G),SPANISH,TSB,N		
C918	2003-001030	AZ163019	R-METAL OXIDE(S),2.4Kohm,5%,1W,AF,TP,2.5		HA68-00624A	AZ664105	MANUAL-USERS,S15A,A/P80(G),PORTUGUESE,TS		
C922	2201-000573	AZ163012	C-CERAMIC,DISC,47pF,5%,50V,CH,TP,6.5x3.0						
C927	2201-000573	AZ163012	C-CERAMIC,DISC,47pF,5%,50V,CH,TP,6.5x3.0						
DZ902	2202-000127	AZ161103	C-CERAMIC,MLC-AXIAL,10nF,+80-20%,25V,Y5V						
IC802	1203-000575	AZ661010	IC-POS. ADJ.UST. REG.8133,SIP,9P,-,PLASTIC						
IC901	AA09-00007A	AZ661023	IC-MCU,6ZM-521TO-R4529,42,ST,8BIT,-,-,-						
L904	2701-000299	AZ361016	INDUCTOR-AXIAL,13UH,10%,2.5X3.4MM						
R416	2008-001047	AZ263065	R-FUSIBLE(S),680OHM,5%,2W,AF,TP,3.9X10MM						
R820	2008-000299	AZ263048	R-FUSIBLE(S),47ohm,5%,2W,AF,TP,3.9x10mm						
R821	2008-000266	AZ263044	R-FUSIBLE(S),10HM,5%,2W,AF,TP,3.9X10MM						
R938	2001-000472	AZ261272	R-CARBON,2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M						
R906	2001-000472	AZ261272	R-CARBON,2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M						
R907	2001-000995	AZ261821	R-CARBON,820OHM,5%,1/8W,AA,TP,1.8X3.2MM						
R908	2001-000232	AZ261132	R-CARBON,1.3KOHM,5%,1/8W,AA,TP,1.8X3.2M						
R909	2001-000605	AZ261362	R-CARBON,3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M						
R940	2001-000660	AZ261333	R-CARBON,33KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
X901	2801-003728	AZ663005	CRYSTAL-UNIT,6MHz,30ppm,28-AAM,20pF,40oh						

### 7-2 CB21T01D5X/TSB(CB21T01D5X and CB14T01N5X Dissimilar Parts)

Loc.No. Replacement No Parts No Description ; Specification					Remarks	Loc.No. Replacement No Parts No Description ; Specification					Remarks
ASSY-PCB,MAIN(OPT)						ASSY-CRT					
*	HA94-01785A	AZ660027	ASSY-PCB,MAIN(OPT);CB21T01,S15A/D,TSB,SE				AA03-00091A	AZ664107	CRT-COLOR;A51EER133X77,BARE,+400MG,21.9		
R611	2001-000577	AZ261202	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM				AA27-50005G	AZ664042	DEFLECTION-YOKE,-,DST-21944(2),21/A51EE		
R305	2001-001048	AZ262129	R-CARBON(S);1.20HM,5%,1/2W,AA,TP,2.4X6.4				AA63-60028A	AZ664086	SPACER-DY;NEOPRENE,-,BLK,V0		
D204	2001-001155	AZ262562	R-CARBON(S);5.6KOHM,5%,1/2W,AA,TP,2.4X6.4				AA27-00002A	AZ664092	MAGNET-CONVERGENCE,-,JH291-SC-08,29.1MM		
R405	2001-001410	AZ262430	R-CARBON(S);430HM,5%,1/2W,AA,TP,2.4X6.4MM				ASSY-SPEAKER				
R301	2004-000869	AZ263027	R-METAL;3KOHM,1%,1/8W,AA,TP,1.8X3.2MM				3001-001039	AZ664109	SPEAKER;3W,16ohm,90dB,180Hz		
R417	2008-000265	AZ263043	R-FUSIBLE(S);10HM,5%,2W,AA,TP,3.9X10MM				AA39-20500C	AZ664110	LEAD CONNECTOR-ASSY,-,67096-003,REC,3(2)		
R814	2008-000267	AZ263045	R-FUSIBLE(S);2.40HM,5%,2W,AA,TP,3.9X10MM								
R815	2008-000267		R-FUSIBLE(S);2.40HM,5%,2W,AA,TP,3.9X10MM								
R302	2008-001033	AZ263050	R-FUSIBLE(S);10ohm,5%,2W,AF,TP,3.9x10mm								
C307	2305-000708	AZ162028	C-FILM,MPEF;150nF,5%,100V,TP,16.5x10.3x5								
C416	2306-000195	AZ166001	C-FILM,MPPF;360nF,5%,400V,TP,26x19x11.5,								
C409	2306-000253	AZ166002	C-FILM,MPPF;7.2nF,5%,1.6KV,TP,28.5x18.5x								
F802	3601-001057	AZ664012	FUSE-FERRULE;250V,630MA,SB,GLASS,5.2X20MM								
V999	3704-000109	AZ664108	SOCKET-CRT;9P;15.24PI,26.5PI,SN,-								
T444	AA26-30001Y	AZ363003	TRANS-FLYBACK,-,FSV-20A001,20,125V								
CN802	AA27-20003Z	AZ362004	COIL-DEGAUSSING,-,21,13.5ohm,25T,L2380,								
L401	AA27-30001B	AZ362005	COIL-LINEARITY,-,195UH,QIC1010,PI0.4,4.5								
LW01	AA27-40001N	AZ362006	COIL-HORIZ WIDTH,-,90/260uH,SB-5S620,PI0								
CN501	AA39-20109B	AZ664056	LEAD-CONNECTOR,ASSY,-,YBNH025-08,S,8P,50								

## 7-3 CB14T01N5X/TSB

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
<b>ASSY-PCB,MAIN</b>									
* HA94-017804 AZ660019 ASSY-PCB,MAIN(OPT),CB14T01,S15A,TSB,PHILIPS									
D201	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q904	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D205	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q905	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D209	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q906	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D210	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q908	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D211	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		QT03	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D701	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q907	0504-000125	AZ561008	TR-DIGITAL;KSR1012,NPN,300mW,47K,TO-92,TP	
D809	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		PC801	0604-001038	AZ661001	PHOTO-COUPLER,TR,130-260%,200MW,DIP-4,ST	
D901	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC902	1103-001105	AZ661004	IC-EEPROM,24C040,4KX1BIT,DIP8P,300MIL,1	
D903	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC601	1201-001147	AZ661006	IC-AUDIO AMP,7056B,SIP9P,-,SINGLE,41.5DB,P	
D909	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC501	1201-001159	AZ661007	IC-VIDEO AMP,6107,ZIP9P,300MIL,SINGLE,-,PL	
D911	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ903	1203-000451	AZ661009	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,	
DA01	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC802	1203-000644	AZ661011	IC-POSIFIXED REG.;7630,SIP,10P,-,PLASTIC,5.1/8V,	
J198	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ803	1203-001217	AZ661013	IC-POSIAJUST REG.;431,TO-92,3P4.58MIL,PLASTIC,2	
D801	0402-000102	AZ462004	DIODE-BRIDGE,D2SB60,600V,1.5A,-		IC801	1203-001494	AZ661014	IC-PWM CONTROLLER,3S0680RF,TO3FP-5L,5,210,PLASTI	
D401	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		QP01	1203-001752	AZ661015	IC-POSIFIXED REG;LF33CV,TO-220,3P,-,PL	
D402	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		IC201	1204-001439	AZ661030	IC-VIDEO PROCESS;TDA8841,DIP56P,-,PLASTIC,8.0V	
D407	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		IC301	1204-001541	AZ661020	IC-VERTICAL DEF;TDA8356/N6A,SIP9P,-,PLASTIC,4	
D804	0402-000213	AZ462006	DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41,TP		NT801	1404-000187	AZ664038	THERMISTOR-NTC;4.7ohm,15%,2800K,27.2mW/C,TP	
D501	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		P801	1404-001048	AZ664039	THERMISTOR-PTC;7ohm,30%,200/220V,270V,19A,-,B	
D810	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		D800	1405-000187	AZ664040	VARISTOR;750V,1250A,12.5x7mm,TP	
D404	0402-000534	AZ462011	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,TP		R705	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D805	0402-000534	AZ462011	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,TP		RT08	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D802	0402-000540	AZ462012	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP		R201	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D403	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R208	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D405	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R908	2001-000006	AZ261242	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M	
D406	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R939	2001-000006	AZ261242	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M	
D502	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R954	2001-000006	AZ261242	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M	
D503	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R940	2001-000007	AZ261302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
D504	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R207	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ401	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		DZ19	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ809	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		J163	2001-000019	AZ262100	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ902	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R408	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ905	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R808	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ907	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R406	2001-000037	AZ262331	R-CARBON(S);330ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ802	0403-000297	AZ461002	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,		R928	2001-000066	AZ262103	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ808	0403-000300	AZ461004	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,		R405	2001-000117	AZ262680	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ201	0403-000355	AZ461005	DIODE-ZENER;UZ5.1BSB,5.1V,4.97-5.18V,500mW,		R706	2001-000221	AZ261122	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R936	0403-000551	AZ461008	DIODE-ZENER;MTZ3.9B,3.9V,3.89-4.16V,500mW,		R907	2001-000221	AZ261122	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ203	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R603	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ205	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R905	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ208	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R948	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ501	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		RA02	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ502	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R611	2001-000258	AZ261182	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ503	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		DZ909	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ504	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R303	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ701	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R962	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ702	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R202	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ703	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R203	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ704	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R204	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ705	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R212	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ901	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R213	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ301	0403-000660	AZ461011	DIODE-ZENER;MTZ22A,22V,20.15-21.2V,500mW,D		R214	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ302	0403-001039	AZ461014	DIODE-ZENER;MA2560,56V,52-60V,1W,DO-41,TP		R220	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ801	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,		R223	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q203	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-		R226	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q703	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-		R234	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q402	0501-000369	AZ561002	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120-		R510	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q201	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R511	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q202	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R512	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q204	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R701	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q251	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R903	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q701	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R904	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q901	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R922	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q902	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R923	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q903	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R952	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
QA01	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R221	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q102	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R906	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q401	0502-001115	AZ561006	TR-POWER;KSC5386,NPN,50W,TO-3PF,ST-8-		R919	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R926	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R927	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R933	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R938	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R960	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
R211	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R414	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R610	2001-000347	AZ261133	R-CARBON;13KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R236	2003-000634	AZ263012	R-METAL OXIDE(S);3.9Kohm,5%,1W,AA,TP,3.3x9mm	
R232	2001-000356	AZ261154	R-CARBON;150KOHM,5%,1/8W,AA,TP,1.8X3.2M		R402	2003-000664	AZ263002	R-METAL OXIDE(S);330OHM,5%,2W,AF,TP,4X12MM	
RT06	2001-000362	AZ261151	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM		R412	2003-000664	AZ263002	R-METAL OXIDE(S);330OHM,5%,2W,AF,TP,4X12MM	
D905	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R812	2003-000713	AZ263013	R-METAL OXIDE(S);470OHM,5%,2W,AF,TP,4X12MM	
R210	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R826	2003-000713	AZ263013	R-METAL OXIDE(S);470OHM,5%,2W,AF,TP,4X12MM	
R250	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R413	2003-000784	AZ263014	R-METAL OXIDE(S);7.5Kohm,5%,2W,AF,TP,4x12mm	
R251	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R801	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R507	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R802	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R508	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R307	2003-001026	AZ263018	R-METAL OXIDE(S);1800OHM,5%,2W,AF,TP,3.9X	
R509	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R825	2003-001040	AZ263021	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x10mm	
R703	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R302	2003-001043	AZ263064	R-METAL OXIDE(S);510ohm,5%,1W,AF,TP,2.5x6.5mm	
R714	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R930	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R935	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R931	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R946	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R929	2004-000253	AZ263026	R-METAL;11KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R956	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R227	2004-001234	AZ263029	R-METAL;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT07	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R818	2004-001371	AZ263030	R-METAL(S);1.5Kohm,1%,1/2W,AA,TP,2.4x6.4m	
RE04	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R819	2004-001390	AZ263031	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R217	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M		R252	2004-001914	AZ263032	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
R924	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M		R301	2004-001983	AZ263034	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R925	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M		R817	2004-001983	AZ263034	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R216	2001-000490	AZ261201	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM		R215	2004-001995	AZ263035	R-METAL;9.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RT01	2001-000539	AZ261243	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R305	2004-004087	AZ263059	R-METAL(S);1.5OHM,1%,1/2W,AA,TP,2.5X6.5MM	
R225	2001-000554	AZ261271	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM		R816	2004-004089	AZ263037	R-METAL;123KOHM,1%,1/2W,AA,TP,2.5X6.5M	
R224	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R409	2008-000204	AZ263038	R-FUSIBLE(S);0.22ohm,10%,1/2W,AF,TP,2.5x6.5	
R231	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R415	2008-000206	AZ263039	R-FUSIBLE(S);1ohm,5%,1/2W,AF,TP,2.5x6.5mm	
R218	2001-000591	AZ261332	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M		R306	2008-000254	AZ263041	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
R909	2001-000613	AZ261392	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M		R417	2008-000259	AZ263060	R-FUSIBLE(S);1.8ohm,5%,2W,AA,TP,3.9x10mm	
R809	2001-000622	AZ261304	R-CARBON;300KOHM,5%,1/8W,AA,TP,1.8X3.2M		R814	2008-000271	AZ263062	R-FUSIBLE(S);3.3OHM,5%,2W,AA,TP,3.9X10MM	
R241	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R815	2008-000271	AZ263062	R-FUSIBLE(S);3.3OHM,5%,2W,AA,TP,3.9X10MM	
R242	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R404	2008-000294	AZ263047	R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm	
R604	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R505	2008-001011	AZ263049	R-FUSIBLE(S);0.18ohm,10%,2W,AF,TP,3.9x10mm	
R902	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R820	2008-001013	AZ263061	R-FUSIBLE(S);1.2ohm,5%,2W,AF,TP,3.9x10mm	
R932	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R416	2008-001098	AZ263057	R-FUSIBLE(S);680OHM,5%,1/2W,AC,BK,2.5X6.5MM	
R937	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		RW9012011-000531	AZ263063	R-NETWORK;4.7KOHM,5%,1/8W,AA,SIP,8P,TP		
R951	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		RW702011-001098	AZ263057	R-NETWORK;75/75/1K/75ohm,5%,,-,PLCC,5P,		
RA03	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		RW7012011-001133	AZ263058	R-NETWORK;33K/24K/75x3.5%,1/8W,X,SIP,6P,		
RA04	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		C907	2201-000119	AZ163001	C-CERAMIC,DISC,100nF,+80-20%,50V,Y5V,TP,8x3.5	
RT09	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		C912	2201-000234	AZ163004	C-CERAMIC,DISC,150pF,5%,50V,CH,TP,9x3.5	
RT13	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		C228	2201-000247	AZ163005	C-CERAMIC,DISC,150P,5%,50V,CH,TP,5X3.5	
R200	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C213	2201-000273	AZ163006	C-CERAMIC,DISC,18pF,5%,50V,CH,TP,5x3mm,5	
R958	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C823	2201-000446	AZ163009	C-CERAMIC,DISC,3.3nF,20%,400V,Y5U,TP,18x8,10m	
J175	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C403	2201-000556	AZ163011	C-CERAMIC,DISC,470pF,10%,500V,Y5P,TP,7x4.5	
J176	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C417	2201-000556	AZ163011	C-CERAMIC,DISC,470pF,10%,500V,Y5P,TP,7x4.5	
J178	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C402	2201-000599	AZ163013	C-CERAMIC,DISC,560pF,10%,500V,Y5P,TP,7x4.5	
R205	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C908	2201-000980	AZ163015	C-CERAMIC,DISC,30pF,5%,50V,CH,TP,5.0x3.0,5mm	
R230	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C909	2201-000980	AZ163015	C-CERAMIC,DISC,30pF,5%,50V,CH,TP,5.0x3.0,5mm	
R237	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		C419	2201-000984	AZ163016	C-CERAMIC,DISC,680pF,10%,2KV,Y5P,TP,11x6.7,5m	
R713	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M		C807	2201-000991	AZ163018	C-CERAMIC,DISC,560pF,10%,2KV,Y5P,TP,13x7.7,5	
R715	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M		C810	2201-000991	AZ163018	C-CERAMIC,DISC,560pF,10%,2KV,Y5P,TP,13x7.7,5	
R717	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M		C503	2201-002063	AZ163019	C-CERAMIC,DISC,10nF,+80-20%,3KV,Y5V,TP,16x5,7	
R228	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM		C704	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL,100pF,10%,50V,Y5P,TP,1.9x3.5,-	
R240	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM		CT05	2202-000154	AZ161151	C-CERAMIC,MLC-AXIAL,150PF,10%,50V,Y5P,TP,1.9X3.5	
R901	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM		C601	2202-000210	AZ161271	C-CERAMIC,MLC-AXIAL,270PF,10%,50V,Y5P,TP,1.9X3.5,7	
RT05	2001-000864	AZ261563	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM		C614	2202-000210	AZ161271	C-CERAMIC,MLC-AXIAL,270PF,10%,50V,Y5P,TP,1.9X3.5,7	
R912	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM		C301	2202-000253	AZ161472	C-CERAMIC,MLC-AXIAL,4.7nF,20%,16V,Y5R,TP,1.9x3.5,7	
RA01	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM		C302	2202-000253	AZ161472	C-CERAMIC,MLC-AXIAL,4.7nF,20%,16V,Y5R,TP,1.9x3.5,7	
R702	2001-000969	AZ261750	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM		C702	2202-000263	AZ161471	C-CERAMIC,MLC-AXIAL,470pF,10%,50V,Y5P,TP,3.5x19,-	
R407	2001-001037	AZ262398	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4mm		C209	2202-000794	AZ161180	C-CERAMIC,MLC-AXIAL,18pF,5%,50V,CH,TP,3.5x19mm,-	
R504	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm		C212	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL,1nF,10%,50V,Y5P,TP,3.5x19,-	
R921	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm		C613	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL,1nF,10%,50V,Y5P,TP,3.5x19,-	
R403	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm		C902	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL,1nF,10%,50V,Y5P,TP,3.5x19,-	
R805	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm		C904	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL,1nF,10%,50V,Y5P,TP,3.5x19,-	
R811	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm		C919	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL,1nF,10%,50V,Y5P,TP,3.5x19,-	
R824	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm		C221	2202-000821	AZ161561	C-CERAMIC,MLC-AXIAL,560pF,10%,50V,Y5P,TP,3.5x19,-	
R822	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m		C247	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
R823	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m		C917	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
DZ804	2001-001170	AZ262689	R-CARBON(S);6.8ohm,5%,1/2W,AA,TP,2.4x6.4mm		C923	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
R803	2001-001178	AZ262681	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4mm		C924	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
D204	2001-001182	AZ262752	R-CARBON(S);7.5KOHM,5%,1/2W,AA,TP,2.4X6.4M		C926	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
R501M2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm		CP01	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3		
R502M2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm		CT01	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3		
R503	2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm		CT02	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
R806	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm		CT06	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
R807	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm		L904	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL,100nF,80-20%,50V,Y5V,TP,2.2x3	
RX801	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm		C913	2301-000108	AZ162001	C-FILM,PEF,1.5nF,5%,50V,TP,6.5x3.0x5.5mm,	
R810	2003-000527	AZ263009	R-METAL OXIDE(S);18Kohm,5%,2W,AA,TP,4x12mm		C217	2301-000192	AZ162003	C-FILM,PEF,1nF,5%,50V,TP,5.3x10mm,5mm	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc. No.	Replacement No	Parts No	Description : Specification	Remarks
C252	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP5,3x10mm,5mm		C231	2401-002235	AZ164031	C-AL;10UF,20%,16V,GP,TP,5X11MM,5MM	
C814	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP5,3x10mm,5mm		C911	2401-002235	AZ164031	C-AL;10UF,20%,16V,GP,TP,5X11MM,5MM	
C916	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP5,3x10mm,5mm		CT07	2401-002235	AZ164031	C-AL;10UF,20%,16V,GP,TP,5X11MM,5MM	
C251	2301-000204	AZ162004	C-FILM,PEF;2.7nF,5%,50V,TP7,4x3,9x13mm,5		C802	2401-002284	AZ164033	C-AL;33uF,20%,50V,GP,TP,5x11,5	
C502	2301-000213	AZ162005	C-FILM,PEF;220nF,5%,250V,TP21,5x11,7,5		C809	2401-002290	AZ165012	C-AL;47uF,20%,160V,GP,TP,13x20,5	
C226	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP7,4x3,9x13mm,5m		C103	2401-002463	AZ164035	C-AL;470uF,20%,16V,GP,TP,8x11,5,5	
C250	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP7,4x3,9x13mm,5m		C303	2401-003028	AZ164038	C-AL;100uF,20%,25V,WT,TP,6,3x11,5	
C803	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP7,4x3,9x13mm,5m		C811	2401-003141	AZ164039	C-AL;2200UF,20%,25V,WT,TP,13X25,5MM	
C804	2301-000310	AZ162010	C-FILM,PEF;68nF,5%,50V,TP8,0X8,5X4,0X5,5		CW9012503-000156	AZ166005	C-NETWORK;100pF,4,20%,50V		
C214	2301-000356	AZ162011	C-FILM,PEF;47nF,5%,50V,TP7,5x4,0x6,5,5mm		DT01	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C215	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP6x7x3,2mm,5mm		DT02	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C401	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP6x7x3,2mm,5mm		DT03	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C210	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP5,5x7x3mm,5mm		J185	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C603	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP5,5x7x3mm,5mm		L103	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C414	2301-001065	AZ162014	C-FILM,MPPF;47nF,5%,630V,TP,19x15,5x7,7,5		L206	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C805	2303-000163	AZ162015	C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8,5,7,5		L301	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C409	2303-001027	AZ162031	C-FILM,PPF;4.7nF,5%,1600V,BK,31x16x9,20		L302	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C307	2305-000149	AZ162016	C-FILM,MPEF;100nF,5%,100V,TP,12x12,5x6,5,5		R209	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C305	2305-000178	AZ162018	C-FILM,MPEF;10nF,5%,100V,TP,-,5mm		R957	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2,5X3,4MM	
C207	2305-000196	AZ162019	C-FILM,MPEF;150nF,5%,63V,TP,-,5MM		L306	2701-000115	AZ361002	INDUCTOR-AXIAL;10UH,10%,2,8X7MM	
C306	2305-000285	AZ162020	C-FILM,MPEF;220nF,5%,100V,TP,20x18x11,5,15		L305	2701-000116	AZ361003	INDUCTOR-AXIAL;10uH,10%,4,2x9,8mm	
C216	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm		L601	2701-000146	AZ361005	INDUCTOR-AXIAL;2.2UH,10%,2,5X3,4MM	
C239	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm		L304	2701-000159	AZ361007	INDUCTOR-AXIAL;22UH,10%,4,2X9,8MM	
C413	2305-000382	AZ162023	C-FILM,MPEF;4.7nF,5%,400V,TP,-,5MM		L202	2701-000169	AZ361029	INDUCTOR-AXIAL;3.9UH,10%,2,5X3,4MM	
C205	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP7,3x4,8x5,5mm,		L702	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2,5X3,4MM	
C206	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP7,3x4,8x5,5mm,		L703	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2,5X3,4MM	
C308	2305-000450	AZ162026	C-FILM,MPEF;56nF,5%,100V,TP,-,5MM		L704	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2,5X3,4MM	
C211	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7,5X4,0X5,0MM,		L706	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2,5X3,4MM	
C240	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7,5X4,0X5,0MM,		L902	2701-000189	AZ361011	INDUCTOR-AXIAL;470NH,10%,2,5X3,4MM	
C201	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		J190	2701-000212	AZ361015	INDUCTOR-AXIAL;68UH,10%,2,8X7MM	
C253	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		L102	2701-000212	AZ361015	INDUCTOR-AXIAL;68UH,10%,2,8X7MM	
C254	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		L809	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
C255	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		L810	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
C816	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		X202	2801-000226	AZ663001	CRYSTAL-UNIT;3.579545MHz,20ppm,28-AAM,15pF,	
C910	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		X901	2801-001476	AZ663006	CRYSTAL-UNIT;12.0MHz,50ppm,28-ABQ,3,30ohm,T	
C914	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		X203	2801-003726	AZ663004	CRYSTAL-UNIT;4.433619MHz,20ppm,28-AAM,20pF,	
C915	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP7,3x4,0x5,0mm,		L402	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C800	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,-,22,5mm		L805	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C416	2306-001004	AZ166007	C-FILM,MPPF;300nF,5%,400V,TP,26X14X21MM,20		L807	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
C248	2309-000138	AZ162030	C-FILM,PE-PPF;100nF,5%,50V,TP,20x16x8,5,7,5mm		Z204	2903-000184	AZ664002	FILTER-CERAMIC;BP5,5MHz,+60KHZ,6dB,-,TP-	
C808	2401-000262	AZ165001	C-AL;100uF,20%,160V,HR,TP,16x25,7,5		Z206	2903-000184	AZ664002	FILTER-CERAMIC;BP5,5MHz,+60KHZ,6dB,-,TP-	
C418	2401-000384	AZ165003	C-AL;10UF,20%,100V,GP,TP,6,3X11,5MM		Z202	2903-001019	AZ664003	FILTER-CERAMIC;TR,5,5/5,742MHz,-,TP-	
C506	2401-000430	AZ165004	C-AL;10UF,20%,250V,GP,TP,10X16MM,5M		SFN022904-001070	AZ664008	FILTER-SAW AV;38.9MHz,SIP5K,TP,14,5dB,PAL-B/		
C222	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5		L804	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3,5x1x6mm,1500,2400G	
C920	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5		SW8013403-000179	AZ662001	SWITCH-PUSH;250V,5A,DPST,-JPW-2104B		
C801	2401-000534	AZ165005	C-AL;150uF,20%,400V,GP,ST,25x30,10		SW9013404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8,4x22,6mm,		
C415	2401-000560	AZ165006	C-AL;1uF,20%,160V,GP,TP,6,3x11,5		SW9023404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8,4x22,6mm,		
C204	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5		SW9033404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8,4x22,6mm,		
C219	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5		SW9043404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8,4x22,6mm,		
C249	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5		SW9053404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8,4x22,6mm,		
C203	2401-000660	AZ164013	C-AL;2.2uF,20%,50V,GP,TP,5x11,5		F801	3601-000261	AZ664010	FUSE-FERRULE;250V,3,15A,TIME LAG,GLASS,5x20	
C815	2401-000808	AZ164015	C-AL;220uF,20%,16V,GP,TP,8x11,5,5		F802	3601-001056	AZ664046	FUSE-FERRULE;250V,0,5A,SB,GLASS,5,2X20MM	
C304	2401-000903	AZ165007	C-AL;22UF,20%,160V,WT,TP,10X20MM,5M		RF800	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2,4x7,5mm	
C411	2401-000927	AZ165008	C-AL;22UF,20%,250V,GP,TP,13X20MM,5M		F801A	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C101	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5		F801B	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C220	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5		F802A	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C602	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5		F802B	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
C102	2401-001082	AZ164019	C-AL;330nF,20%,50V,GP,TP,5x11,5		V999	3704-001089	AZ664047	SOCKET-CRT;7P,22,5PI,12PI,SN,-	
C504	2401-001232	AZ165009	C-AL;4.7uF,20%,250V,GP,TP,10x12,5,5		CN6013711-002642	AZ664017	CONNECTOR-HEADER;BOX,3P,1R,2,5MM,STRAIGHT,SN		
C705	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11,5		CN7033711-002648	AZ664021	CONNECTOR-HEADER;BOX,3P,1R,2,5mm,STRAIGHT,SN		
C706	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11,5		JS7013722-000183	AZ664028	JACK-SCART;21P,4mm,SN,BLK,NO		
CA01	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11,5		IC901	AA09-00016A	AZ661027	IC-MCU;SAA5562M3-XXX,52PST,8BIT,-12M	
C604	2401-001323	AZ164021	C-AL;470nF,20%,50V,BP,TP,5x11,5mm		T801	AA26-20007Q	AZ363001	TRANS-SWITCHING;-.180-260V,125V/12,5V,EN,EER28	
C227	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		T444	AA26-30005S	AZ363006	TRANS-FLYBACK;-.FSV-14A004(S),14,125V	
C230	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		T401	AA26-50001B	AZ363005	HORIZ DRIVE;-7,1MH,102UH,10-20UH,YL081,ST	
C238	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		CN802AA27-20003U	AZ362008	COIL-DEGAUSSING;-.14,16,4ohm,75T,890mm,D		
C818	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		L401	AA27-30003R	AZ362011	COIL-LINERITY;-.220uH,YL10x10,0,35mm,23x13mm	
CT03	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP		LW01	AA27-40001MA	AZ362012	COIL-HORIZ WIDTH;-.180/480uH,SB-5S6202,6,P10,8,	
C408	2401-001530	AZ164026	C-AL;47uF,20%,25V,GP,TP,5x11,5		L801	AA29-30001G	AZ362008	FILTER-LINE;-.27mH,0,6A,-	
C202	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6,3x11,5		CN501AA39-20109A	AZ664060	LEAD-CONNECTOR,ASSY;-YBNH025-08,S,8P400,1007#26		
C232	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6,3x11,5		TU01	AA40-00006A	AZ664063	TUNER-V/S;TECC0949VG29B(S),PAL-B/G,-181	
C819	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6,3x11,5		RL901	AA59-60001U	AZ664034	MODULE-REMOCON;-.ORC-50VF/SR-12V,38KHZ,940nm,	
C901	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6,3x11,5		TOP	AA63-40309A	AZ664036	SHIELD-CASE, TOP;-.SPTE,10,25,S15A,-	
CP02	2401-001914	AZ164040	C-AL;1uF,20%,50V,BP,TP,5x11,5		LD901	AA96-30007A	AZ664067	ASSY-LED,GUIDE;-.AA61-50055A,DL-G7GA,GREEN	
C404	2401-001998	AZ164029	C-AL;1000UF,20%,25V,GP,TP,10X20,5MM						
C610	2401-001998	AZ164029	C-AL;1000UF,20%,25V,GP,TP,10X20,5MM						
C922	2401-002144	AZ164030	C-AL;47uF,20%,16V,GP,TP,5x11,5						

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
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### ASSY-PCB,A/V FRONT

	HA95-900017	AZ660016	ASSY-PCB,A/V FRONT,S15A,TSB	
	AA39-20112E	AZ664057	LEAD-CONNECTOR,ASSY:-,YBNH025-09,67096-009,9P,300,	
	3722-000143	AZ664027	JACK-PHONE,1P(VER),3.4mm,AG,BLK,NO	
	3722-000506	AZ664030	JACK-RCA;2P;3.6MM,-,AG	
QE01	0501-000283	AZ561001	TR-SMALL SIGNAL,KSA539,PNP,400mW,TO-92,TP,120-	
RE05	2001-000009	AZ261203	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RE03	2001-000010	AZ261683	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RE04	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RE01	2001-000117	AZ262680	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm	
RE02	2001-000117	AZ262680	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm	
CE07	2202-000222	AZ161332	C-CERAMIC,MLC-AXIAL,3.3nF,20%,16V,Y5P,TP,-,7.5	
CE06	2202-000862	AZ161391	C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP;3.5x1.9,-	
CE03	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP;5x11,5	
CE01	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP;6.3x11,5	
LE01	2701-000158	AZ361006	INDUCTOR-AXIAL,22uH,10%,2.5x3.4mm	

### REMOCON

AA59-00088B	AZ664065	REMOCON;DP,TM59,AA59-00082B,-,-,-,-,-,-,-,	
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### ASSY-CRT

AA03-10023X	AZ664048	CRT-COLOR:-,A34EAC01X06,+380mG,14,90DEG	
AA39-20518A	AZ664062	LEAD CONNECTOR-ASSY:-,YFH806-06,-,6(4)P,350MM,1617	

### ASSY-SPEAKER

AA39-20501A	AZ664061	LEAD CONNECTOR-ASSY:-,67096-003,REC,3(2),200,1007#	
3001-000275	AZ664068	SPEAKER;2.5W,16ohm,90dB,105Hz	

### ASSY-POWER,CORD

AA39-10001G	AZ664041	POWER-CORD:-,KKP-419C,KLCE-2F,2.286M,HOU	
AA61-20284A	AZ664044	HOLDER:-,P-CORD,PPVO,BLK,KE-002	

### ASSY-ACCESSORY

AA26-90001C	AZ664049	TRANS-MATCHING:-,300ohm/75ohm,PAL,40-890MHz	
AA42-10001V	AZ664064	ANT-ROD:-,3S,620mm,BRN,UL/CSA	
HA68-00625A	AZ664070	MANUAL-USERS;S15A,A/P80(G),FRENCH,TSB,TTX	
HA68-00626A	AZ664071	MANUAL-USERS;S15A,A/P80(G),GERMAN,TSB,TTX	
HA68-00627A	AZ664072	MANUAL-USERS;S15A,A/P80(G),ITALIAN,TSB,TTX	
HA68-00628A	AZ664073	MANUAL-USERS;S15A,A/P80(G),SPANISH,TSB,TTX	
HA68-00629A	AZ664074	MANUAL-USERS;S15A,A/P80(G),PORTUGUESE,TSB,T	

## 7-4 CF14R01F5X/TSB(CF14R01F5X and CF21R01F5X Dissimilar Parts)

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
<b>ASSY-PCB,MAIN(OPT)</b>					<b>ASSY-CRT</b>				
	HA94-01789A	AZ660030	ASSY-PCB,MAIN(OPT);CF14R01,S15A/D,TSB,PH		AA03-10023X	AZ664048	CRT-COLOR:-A34EAC01X06,+380mG,14,90DEG		
R611	2001-000258	AZ261182	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM		AA39-20518A	AZ664062	LEAD CONNECTOR-ASSY:-YFH806-06,-6(4)P,		
D204	2001-001182	AZ262752	R-CARBON(S);7.5KOHM,5%,1/2W,AA,TP,2.4X6		<b>ASSY-ACCESSORY</b>				
R812	2003-000455	AZ263066	R-METAL OXIDE(S);100OHM,5%,2W,AA,TP,4X12		AA42-10001V	AZ664064	ANT-ROD:-.3S,620mm,BRN,UL/CSAI		
R302	2003-001043	AZ263064	R-METAL OXIDE(S);510ohm,5%,1W,AF,TP,2.5x		AA26-90001C	AZ664049	TRANS-MATCHING:-.300ohm/75ohm,PAL,40-890		
R305	2004-004087	AZ262159	R-METAL(S);1.5ohm,1%,1/2W,AA,TP,2.5x6.5mm						
R417	2008-000259	AZ263060	R-FUSIBLE(S);1.8ohm,5%,2W,AA,TP,3.9x10mm						
R814	2008-000271	AZ263062	R-FUSIBLE(S);3.30HM,5%,2W,AA,TP,3.9X10MM						
R815	2008-000271	AZ263062	R-FUSIBLE(S);3.30HM,5%,2W,AA,TP,3.9X10MM						
C409	2303-001027	AZ166010	C-FILM,PPF,4.7nF,5%,1600V,BK,31x16x9,20						
C307	2305-000149	AZ162016	C-FILM,MPEF,100nF,5%,100V,TP,12x12.5x6.5						
C416	2306-001004	AZ166011	C-FILM,MPPF,300nF,5%,400V,TP,26X14X21MM,						
F802	3601-001056	AZ664110	FUSE-FERRULE;250V,0.5A,SB,GLASS,5.2X20MM						
V999	3704-000102	AZ664111	SOCKET-CRT;10P,22.5,14.3,SN,DHE-B93-500M						
T444	AA26-30005S	AZ363006	TRANS-FLYBACK:-FSV-14A004(S);14,125V						
CN802	AA27-20003U	AZ362008	COIL-DEGAUSSING:-.14,16.4ohm,75T,890mm,						
L401	AA27-30003R	AZ362011	COIL-LINERITY:-.220uH,YL10x10,0.35mm,23x						
LW01	AA27-40001M	AZ362012	COIL-HORIZ WIDTH:-.180/480uH,SB-SS6202.6						
CN501	AA39-20109A	AZ664060	LEAD-CONNECTOR,ASSY:-YBNH025-08,S,8P,40						

### ASSY-SPEAKER

AA39-20501A AZ660061 LEAD CONNECTOR-ASSY:-67096-003,REC,3(2)  
3001-000275 AZ664078 SPEAKER,2.5W,16ohm,90dB,105Hz

## 7-5 CF21T01F5X/TSB(CF21T01F5X and CF21R01F5X Dissimilar Parts)

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
<b>ASSY-PCB,MAIN(OPT)</b>					<b>REMOCON</b>				
	HA94-01791A	AZ660029	ASSY-PCB,MAIN(OPT);CF21T01,S15A/D,TSB,SE			AA59-00088B	AZ664100	REMOCON,DP,TM59,AA59-00082B,-,-,-,-,-,-,-,-	
R936	0403-000551	AZ461008	DIODE-ZENER;MTZ3.9B,3.9V,3.89-4.16V,500M		<b>ASSY-ACCESSORY</b>				
IC802	1203-000644	AZ661011	IC-POSI.FIXED REG.;7630,SIP,10P,-,PLASTI		HA68-00625A	AZ664070	MANUAL-USERS,S15A,A/P80(G),FRENCH,TSB,TT		
R940	2001-000007	AZ261302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM		HA68-00626A	AZ664071	MANUAL-USERS,S15A,A/P80(G),GERMAN,TSB,TT		
RT01	2001-000539	AZ261243	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM		HA68-00627A	AZ664072	MANUAL-USERS,S15A,A/P80(G),ITALIAN,TSB,T		
R909	2001-000613	AZ261392	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M						
R820	2008-001013	AZ263061	R-FUSIBLE(S);1.2ohm,5%,2W,AF,TP,3.9x10mm						
R416	2008-001047	AZ263065	R-FUSIBLE(S);680HM,5%,2W,AF,TP,3.9X10MM						
RW901	2011-000531	AZ263063	R-NETWORK;4.7KOHM,5%,1/8W,A,SIP,8P,TP						
C908	2201-000980	AZ163015	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0						
C909	2201-000980	AZ163015	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0						
CT05	2202-000154	AZ161151	C-CERAMIC,MLC-AXIAL;150PF,10%,50V,Y5P,TP						
CP02	2401-001914	AZ164040	C-AL,1uF,20%,50V,BP,TP,5x11,5I						
C922	2401-002144	AZ164030	C-AL,47uF,20%,16V,GP,TP,5x11,1						
J190	2701-000211	AZ361014	INDUCTOR-AXIAL;68uH,10%,2.5x3.4mm						
X901	2801-001476	AZ663008	CRYSTAL-UNIT,12.0MHz,50ppm,28-ABQ,S,30oh						
IC901	AA09-00016A	AZ661027	IC-MCU;SAA5562M3-XXX,52P,ST,8BIT,-12MHz,						

## 7-6CF21R01F5X/TSB

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks	Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
<b>ASSY-PCB,MAIN</b>									
* HA94-01790A	AZ660015	ASSY-PCB,MAIN(OPT);CF21R01,S15A/D,TSB,SEB							
D201	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q905	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D205	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q906	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D209	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q908	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D210	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q909	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
D211	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		Q907	0504-000125	AZ561008	TR-DIGITAL;KSR1012,NPN,300mW,47K,TO-92,TP	
D701	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		PC801	0604-001038	AZ661001	PHOTO-COUPLER;TR,130-260%,200MW,DIP-4,ST	
D809	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC902	1103-001105	AZ661004	IC-EEPROM;24C040,4KX1BIT,DIP8P,300MIL,1	
D901	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC501	1201-001147	AZ661006	IC-AUDIO AMP;7056B,SIP9P,-,SINGLE,41.5DB,P	
D905	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC501	1201-001159	AZ661007	IC-VIDEO AMP;6107,ZIP9P,300MIL,SINGLE,-,PL	
D906	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ903	1203-000451	AZ661009	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,	
D907	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC802	1203-000575	AZ661010	IC-POS1 ADJUST REG;8133,SIP9P,-,PLASTIC,5/5,2V,-	
D908	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ803	1203-001217	AZ661013	IC-POS1 ADJUST REG;431,TO-92,3P,4.58MIL,PLASTIC,2	
D912	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC801	1203-001494	AZ661014	IC-PWM CONTROLLER;3S0680RF,TO3FP-5L,5,210,PLASTI	
DA01	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC201	1204-001440	AZ661019	IC-VIDEO SYSTEM;TDA8842,DIP56P,300MIL,PLASTIC	
J190	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		IC301	1204-001541	AZ661020	IC-VERTICAL DEF;TDA8356/N6A,SIP9P,-,PLASTIC,4	
J198	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		NT801	1404-000187	AZ664038	THERMISTOR-NTC;4.7ohm,15%,2800K,27.2mW/C,TP	
D801	0402-000102	AZ462004	DIODE-BRIDGE;D2SB60,600V,1.5A,-		P801	1404-001048	AZ664039	THERMISTOR-PTC;7ohm,30%,200/220V,270V,19A,-,B	
D401	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		D800	1405-000187	AZ664040	VARIATOR;750V,1250A,12.5x7mm,TP	
D402	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		R705	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D407	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		R201	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D804	0402-000213	AZ462006	DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41,TP		R208	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
D501	0402-000254	AZ462009	DIODE-RECTIFIER;RG10J,600V,1A,DO-41,TP		R954	2001-000006	AZ261242	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M	
D810	0402-000254	AZ462009	DIODE-RECTIFIER;RG10J,600V,1A,DO-41,TP		R207	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
D404	0402-000534	AZ462011	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,TP		R219	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
D805	0402-000534	AZ462011	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,TP		RE05	2001-000009	AZ261203	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
D802	0402-000540	AZ462012	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP		RE03	2001-000010	AZ261683	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
D403	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		J163	2001-000019	AZ262100	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4mm	
D405	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R408	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
D406	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R808	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
D502	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R406	2001-000037	AZ262331	R-CARBON(S);330ohm,5%,1/2W,AA,TP,2.4x6.4mm	
D503	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		R928	2001-000066	AZ662103	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
D504	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		RA02	2001-000214	AZ261112	R-CARBON;1.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
D903	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R706	2001-000221	AZ261122	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ401	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R908	2001-000232	AZ261132	R-CARBON;1.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ809	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R603	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ905	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R905	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ907	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		R948	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ802	0403-000297	AZ461002	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,		DZ909	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ808	0403-000300	AZ461004	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,		R303	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ201	0403-000355	AZ461005	DIODE-ZENER;UZ5.1BSB,5.1V,4.97-5.18V,500mW		R962	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ203	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R202	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ205	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R203	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ208	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R204	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ501	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R212	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ502	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R213	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ503	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R214	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ504	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R223	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ701	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R226	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ702	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R234	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ703	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R510	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ704	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R511	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ705	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R512	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ901	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,		R903	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ301	0403-000660	AZ461011	DIODE-ZENER;MTZ22A,22V,20.15-21.2V,500mW,D		R904	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ302	0403-001039	AZ461014	DIODE-ZENER;MA2560,56V,52-60V,1W,DO-41,TP		R916	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DZ801	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,		R917	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q203	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-		R918	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q703	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-		R922	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
QEO1	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-		R923	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q402	0501-000369	AZ561002	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120-		R952	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q201	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R221	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q202	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R910	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q204	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R919	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q701	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R926	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q901	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R927	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q903	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		R960	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
QA01	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100		RL02	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q401	0502-001115	AZ561006	TR-POWER;KSC5386,NPN,50W,TO-3PF,ST,8-		R232	2001-000356	AZ261154	R-CARBON;150KOHM,5%,1/8W,AA,TP,1.8X3.2M	
Q904	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP		R210	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R251	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
					R507	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

## Electrical Parts List

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
R508	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R509	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R714	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R946	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R950	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R956	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R217	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R924	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R925	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R934	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R906	2001-000472	AZ261272	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R938	2001-000472	AZ261272	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R216	2001-000490	AZ261201	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R225	2001-000554	AZ261271	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R224	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R231	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R611	2001-000577	AZ261202	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R218	2001-000591	AZ261332	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R909	2001-000605	AZ261362	R-CARBON;3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R809	2001-000622	AZ261334	R-CARBON;300KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R940	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R241	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R242	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R604	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R902	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R914	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R932	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R936	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R937	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R951	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA03	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA04	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R200	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RL03	2001-000786	AZ261473	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R230	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R237	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R713	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R715	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R228	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R240	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R901	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R920	2001-000864	AZ261563	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R912	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RA01	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R702	2001-000969	AZ261750	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R907	2001-000995	AZ261821	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R407	2001-001037	AZ262398	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R305	2001-001048	AZ262129	R-CARBON(S);1.2ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R504	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R403	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R805	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm	
R811	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm	
R824	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm	
R822	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R823	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
D204	2001-001155	AZ262562	R-CARBON(S);5.6Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ804	2001-001170	AZ262689	R-CARBON(S);6.8ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R803	2001-001178	AZ262681	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R405	2001-001410	AZ262430	R-CARBON(S);430OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R501H2002-001008	AZ263001		R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm	
R502H2002-001008	AZ263001		R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm	
R503	2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm	
R806	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R807	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
RX801	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R810	2003-000527	AZ263009	R-METAL OXIDE(S);18Kohm,5%,2W,AA,TP,4x12mm	
R402	2003-000532	AZ263010	R-METAL OXIDE(S);18ohm,5%,2W,AF,TP,4x12mm	
R404	2003-000532	AZ263010	R-METAL OXIDE(S);18ohm,5%,2W,AF,TP,4x12mm	
R414	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R236	2003-000634	AZ263012	R-METAL OXIDE(S);3.9Kohm,5%,1W,AA,TP,3.3x9mm	
R812	2003-000713	AZ263013	R-METAL OXIDE(S);470OHM,5%,2W,AF,TP,4X12MM	
R826	2003-000713	AZ263013	R-METAL OXIDE(S);470OHM,5%,2W,AF,TP,4X12MM	
R413	2003-000784	AZ263014	R-METAL OXIDE(S);7.5Kohm,5%,2W,AF,TP,4x12mm	
R801	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R802	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R307	2003-001026	AZ263018	R-METAL OXIDE(S);180OHM,5%,2W,AF,TP,3.9X	

Loc. No.	Replacement No	Parts No	Description : Specification	Remarks
C918	2003-001030	AZ263019	R-METAL OXIDE(S);2.4Kohm,5%,1W,AF,TP,2.5x6.5mm	
R825	2003-001040	AZ263021	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x10mm	
R930	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R931	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R929	2004-000253	AZ263026	R-METAL;11KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R301	2004-000869	AZ263027	R-METAL;3KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R227	2004-001234	AZ263029	R-METAL;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R818	2004-001371	AZ263030	R-METAL(S);1.5Kohm,1%,1/2W,AA,TP,2.4x6.4mm	
R819	2004-001390	AZ263031	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R252	2004-001914	AZ263032	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
R817	2004-001983	AZ263034	R-METAL.2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R215	2004-001995	AZ263035	R-METAL;9.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R816	2004-004089	AZ263037	R-METAL;123KOHM,1%,1/2W,AA,TP,2.5X6.5M	
R409	2008-000204	AZ263038	R-FUSIBLE(S);0.22ohm,10%,1/2W,AF,TP,2.5x6.5	
R415	2008-000206	AZ263039	R-FUSIBLE(S);1ohm,5%,1/2W,AF,TP,2.5x6.5mm	
R306	2008-000254	AZ263041	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
R417	2008-000265	AZ263043	R-FUSIBLE(S);1OHM,5%,2W,AA,TP,3.9X10MM	
R821	2008-000266	AZ263044	R-FUSIBLE(S);1OHM,5%,2W,AF,TP,3.9X10MM	
R814	2008-000267	AZ263045	R-FUSIBLE(S);2.4OHM,5%,2W,AA,TP,3.9X10MM	
R815	2008-000267	AZ263045	R-FUSIBLE(S);2.4OHM,5%,2W,AA,TP,3.9X10MM	
R820	2008-000299	AZ263048	R-FUSIBLE(S);47ohm,5%,2W,AF,TP,3.9x10mm	
R505	2008-001011	AZ263049	R-FUSIBLE(S);0.18ohm,10%,2W,AF,TP,3.9x10mm	
R302	2008-001033	AZ263050	R-FUSIBLE(S);1ohm,5%,2W,AF,TP,3.9x10mm	
R412	2008-001062	AZ263051	R-FUSIBLE;39ohm,5%,2W,AF,TP,3.9x10mm	
R416	2008-001098	AZ263053	R-FUSIBLE(S);680HM,5%,1/2W,AC,BK,2.5X6.5MM	
RW702	2011-001098	AZ263057	R-NETWORK;75/75/1K/75ohm,5%,. . .,PLCC,5P,	
RW701	2011-001133	AZ263058	R-NETWORK;33K/24K/75x3.5%,1/8W,X,SIP6P,	
C907	2201-000119	AZ163001	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,8x3.5	
C908	2201-000193	AZ163003	C-CERAMIC,DISC;10pF,0.3pF,50V,CH,TP,5x3.5	
C909	2201-000193	AZ163003	C-CERAMIC,DISC;10pF,0.3pF,50V,CH,TP,5x3.5	
C912	2201-000234	AZ163004	C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3.5	
C228	2201-000247	AZ163005	C-CERAMIC,DISC;15PF,5%,50V,CH,TP,5X3.5	
C213	2201-000273	AZ163006	C-CERAMIC,DISC;18pF,5%,50V,CH,TP,5x3mm,5	
C813	2201-000446	AZ163009	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x8,10m	
C403	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5	
C417	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5	
C922	2201-000573	AZ163012	C-CERAMIC,DISC;47pF,5%,50V,CH,TP,6.5x3.0,5	
C927	2201-000573	AZ163012	C-CERAMIC,DISC;47pF,5%,50V,CH,TP,6.5x3.0,5	
C402	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5	
C419	2201-000984	AZ163016	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6.7,5m	
C807	2201-000991	AZ163018	C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7.7,5	
C810	2201-000991	AZ163018	C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7.7,5	
C503	2201-002063	AZ163019	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP,16x5.7	
C701	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
C703	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
C704	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
CN01	2202-000127	AZ161103	C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V,-7.5,TP	
DZ902	2202-000127	AZ161103	C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V,-7.5,TP	
C601	2202-000210	AZ161271	C-CERAMIC,MLC-AXIAL;270PF,10%,50V,Y5P,TP,1.9X3.5,7	
C614	2202-000210	AZ161271	C-CERAMIC,MLC-AXIAL;270PF,10%,50V,Y5P,TP,1.9X3.5,7	
CE07	2202-000222	AZ161332	C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP,-7.5	
C301	2202-000253	AZ161472	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5P,TP,1.9x3.5,7	
C302	2202-000253	AZ161472	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5P,TP,1.9x3.5,7	
C702	2202-000263	AZ161471	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP,3.5x19,-	
C209	2202-000794	AZ161180	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.5x19mm,-	
C212	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C613	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C902	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C904	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C919	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C926	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C221	2202-000821	AZ161561	C-CERAMIC,MLC-AXIAL;560pF,10%,50V,Y5P,TP,3.5x19,-	
C247	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C917	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C923	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C924	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C913	2301-000108	AZ162001	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm,	
C217	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C252	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C814	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C251	2301-000204	AZ162004	C-FILM,PEF;2.7nF,5%,50V,TP,7.4x3.9x13mm,5	
C502	2301-000213	AZ162005	C-FILM,PEF;220nF,5%,250V,TP,21.5x11.7,5	
C226	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C250	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C803	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C916	2301-000247	AZ162007	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
C804	2301-000310	AZ162010	C-FILM,PEF;68nF,5%,50V,TP,8.0x4.5x13mm,5m	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
C214	2301-000356	AZ162011	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
C215	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C401	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C210	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C603	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C414	2301-001065	AZ162014	C-FILM,MPPF;47nF,5%,630V,TP,19x15.5x7.7.5	
C805	2303-000163	AZ162015	C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8.5,7.5	
C305	2305-000178	AZ162018	C-FILM,MPEF;10nF,5%,100V,TP,5mm	
C207	2305-000196	AZ162019	C-FILM,MPEF;150nF,5%,63V,TP,5MM	
C306	2305-000285	AZ162020	C-FILM,MPEF;220nF,5%,100V,TP,20x18x11.5,15	
C216	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,5mm	
C239	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,5mm	
C413	2305-000382	AZ162023	C-FILM,MPEF;4.7nF,5%,400V,TP,5MM	
C205	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,	
C206	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,	
C308	2305-000450	AZ162026	C-FILM,MPEF;56nF,5%,100V,TP,5MM	
C211	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C240	2305-000665	AZ162027	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0MM,	
C307	2305-000708	AZ162028	C-FILM,MPEF;150nF,5%,100V,TP,16.5x10.3x5.7	
C201	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C253	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C254	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C255	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C910	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C914	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C915	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C416	2306-000195	AZ166001	C-FILM,MPPF;360nF,5%,400V,TP,26x19x11.5,2.0	
C409	2306-000253	AZ166002	C-FILM,MPPF;7.2nF,5%,1.6KV,TP,28.5x18.5x12	
C800	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,22.5mm	
C248	2309-000138	AZ162030	C-FILM,PE-PPF;100nF,5%,50V,TP,20x16x8.5,7.5mm	
CL01	2401-000027	AZ164001	C-AL;4.7uF,20%,50V,GP,TP,5x11.5	
C808	2401-000262	AZ165001	C-AL;100uF,20%,160V,HR,TP,16x25.7.5	
C418	2401-000384	AZ165003	C-AL;100uF,20%,100V,GP,TP,6.3x11.5MM	
C506	2401-000430	AZ165004	C-AL;100uF,20%,250V,GP,TP,10x16MM,5M	
C222	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C920	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C801	2401-000534	AZ165005	C-AL;150uF,20%,400V,GP,ST,25x30,10	
C415	2401-000560	AZ165006	C-AL;1uF,20%,160V,GP,TP,6.3x11.5	
C204	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5	
C219	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5	
C249	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5	
C816	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11.5	
C203	2401-000660	AZ164013	C-AL;2.2uF,20%,50V,GP,TP,5x11.5	
C815	2401-000808	AZ164015	C-AL;220uF,20%,16V,GP,TP,8x11.5.5	
C304	2401-000903	AZ165007	C-AL;22uF,20%,160V,WT,TP,10X20MM,5M	
C411	2401-000927	AZ165008	C-AL;22uF,20%,250V,GP,TP,13X20MM,5M	
C101	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11.5	
C220	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11.5	
C602	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11.5	
C102	2401-001082	AZ164019	C-AL;330nF,20%,50V,GP,TP,5x11.5	
C504	2401-001232	AZ165009	C-AL;4.7uF,20%,250V,GP,TP,10x12.5.5	
CA01	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11.5	
C604	2401-001323	AZ164021	C-AL;470nF,20%,50V,BP,TP,5x11.5mm	
C905	2401-001333	AZ164022	C-AL;470nF,20%,50V,GP,TP,5x11.5	
C230	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C238	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C818	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C408	2401-001530	AZ164026	C-AL;47uF,20%,25V,GP,TP,5x11.5	
C202	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
C232	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
C819	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
C901	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
C404	2401-001998	AZ164029	C-AL;1000uF,20%,25V,GP,TP,10X20,5MM	
C610	2401-001998	AZ164029	C-AL;1000uF,20%,25V,GP,TP,10X20,5MM	
C231	2401-002235	AZ164031	C-AL;100uF,20%,16V,GP,TP,5X11MM,5MM	
C911	2401-002235	AZ164031	C-AL;100uF,20%,16V,GP,TP,5X11MM,5MM	
C802	2401-002284	AZ164033	C-AL;33uF,20%,50V,GP,TP,5x11.5	
C809	2401-002290	AZ165012	C-AL;47uF,20%,160V,GP,TP,13x20.5	
C103	2401-002463	AZ164035	C-AL;470uF,20%,16V,GP,TP,8x11.5.5	
C303	2401-003028	AZ164038	C-AL;100uF,20%,25V,WT,TP,6.3x11.5	
C811	2401-003141	AZ164039	C-AL;2200uF,20%,25V,WT,TP,13X25.5MM	
CW9012503-000156	AZ166005	C-NETWORK;100pfx4.20%,50V		
J185	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L103	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L206	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L301	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L302	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
R209	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L306	2701-000115	AZ361002	INDUCTOR-AXIAL;10UH,10%,2.8X7MM	
L305	2701-000116	AZ361003	INDUCTOR-AXIAL;10uH,10%,4.2x9.8mm	
L601	2701-000146	AZ361005	INDUCTOR-AXIAL;2.2UH,10%,2.5X3.4MM	
L304	2701-000159	AZ361007	INDUCTOR-AXIAL;22UH,10%,4.2X9.8MM	
L202	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L701	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L702	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L703	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L704	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L902	2701-000189	AZ361011	INDUCTOR-AXIAL;470NH,10%,2.5X3.4MM	
L102	2701-000212	AZ361015	INDUCTOR-AXIAL;68UH,10%,2.8X7MM	
L904	2701-000299	AZ361016	INDUCTOR-AXIAL;13UH,10%,2.5X3.4MM	
L101	2701-000326	AZ361017	INDUCTOR-AXIAL;560nH,10%,2.3x3.4mm	
L809	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
L810	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
X202	2801-000226	AZ663001	CRYSTAL-UNIT;3.579545MHz,20ppm,28-AAM,15pF	
X203	2801-003726	AZ663004	CRYSTAL-UNIT;4.433619MHz,20ppm,28-AAM,20pF	
X901	2801-003728	AZ663005	CRYSTAL-UNIT;6MHz,30ppm,28-AAM,20pF,40ohm,T	
L402	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
L805	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
L807	2901-000297	AZ362001	FILTER-EMI ON BOARD;-.3A,-,3.5X5,TP-	
Z206	2903-000184	AZ664002	FILTER-CERAMIC;BP;5.5MHz,+-60KHz,6dB,-,TP-	
Z202	2903-001019	AZ664003	FILTER-CERAMIC;TR;5.5/5.742MHz,-,TP-	
Z201	2903-001040	AZ664004	FILTER-CERAMIC;TR;5.5/6.0/6.5MHz,-,1dB,-,TP,T	
SFN022904-001070	AZ664008	FILTER-SAW AV;38.9MHz,SIP5K,TP,14.5dB,PAL-B/		
L804	3301-000287	AZ362003	CORE-FERRITE BEAD;AA;3.5x1.6x6mm,1500,2400G	
SW8013403-000179	AZ662001	SWITCH-PUSH;250V,5A,DPST,-,JPW-2104B		
SW9013404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
SW9023404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
SW9033404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
SW9043404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
SW9053404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,		
F801	3601-000261	AZ664010	FUSE-FERRULE;250V,3.15A,TIME LAG,GLASS,5x20	
F802	3601-001057	AZ664012	FUSE-FERRULE;250V,630MA,SB,GLASS,5.2X20MM	
RF800	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
F801A	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
F801B	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
F802A	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
F802B	3602-000114	AZ664014	FUSE-HOLDER;-.30MOHM	
V999	3704-001090	AZ664015	SOCKET-CRT;9P,15.24PI,26.5PI,SN,-	
CN7033711-002648	AZ664021	CONNECTOR-HEADER;BOX,9P,1R,2.5mm,STRAIGHT,SN		
JS7013722-000183	AZ664028	JACK-SCART;21P,4mm,SN,BLK,NO		
IC901	AA09-00007A	AZ661023	IC-MCU;uZM-521T0-R4529,42,ST,8BIT,-	
HC101AA13-20004WAZ661025	IC-HYBRID;-.PAP103T,SIP,GP,PRE-AMPT			
T801	AA26-20007Q	AZ363001	TRANS-SWITCHING;-.180-260V,125V/12.5V,EN,EER28	
T444	AA26-30001Y	AZ363003	TRANS-FLYBACK;-.FVS-20A001,20,125V	
T401	AA26-50001B	AZ363005	HORIZ.DRIVE;-.7.1MH,102UH,10-20UH,YL081,ST	
CN802AA27-20003Z	AZ362004	COIL-DEGAUSSING;-.21,13.5ohm,25T,L2380,E		
L401	AA27-30001B	AZ362005	COIL-LINEARITY;-.195UH,QIC1010,P10,4.4,5X21.5	
LW01	AA27-40001N	AZ362006	COIL-HORIZ.WIDTH;-.90/260uH,SB-5S620,P10.8,-	
L801	AA29-30001G	AZ362008	FILTER-LINE;-.27mH,0.6A,-	
CN501AA39-20109B	AZ664056	LEAD-CONNECTOR,ASSY;-.YBNH025-08,S,8P,500,1007#26		
TU01	AA40-00007A	AZ664033	TUNER-V/S;TECC0949VG29A(S),PAL-B/G,-,181	
RL901	AA59-60001U	AZ664034	MODULE-REMOCON;-.ORC-50VFSR-12V,38KHz,940nm,	
BOT	AA63-40309A	AZ664036	SHIELD-CASE, TOP;-.SPT,TO.25,S15A,-	
LD901	AA96-30007A	AZ664067	ASSY-LED, GUIDE;-.AA61-50055A,DL-G7GA, GREEN	

## ASSY-PCB,A/V FRONT

\* HA95-900017 AZ660016 ASSY-PCB,A/V FRONT;S15A,TSB

QE01	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-
RE05	2001-000009	AZ261203	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM
RE03	2001-000010	AZ261683	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM
RE01	2001-000117	AZ162680	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm
RE02	2001-000117	AZ162680	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm
RE04	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM
CE07	2202-000222	AZ161332	C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP,-,7.5
CE06	2202-000862	AZ161391	C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,-
CE03	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11.5
CE01	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11.5
LE01	2701-000158	AZ361006	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm
3722-000143	AZ664027	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
3722-000506	AZ664030	JACK-RCA;2P,3.6MM,-,AG	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc. No.	Replacement No	Parts No	Description : Specification	Remarks
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CN802AA27-20003Z AZ362004 COIL-DEGAUSSING;-;21,13.5ohm,25T,L2380,E  
AA39-20112E AZ664057 LEAD-CONNECTOR,ASSY;-;YBNH025-09,67096-009,9P,300,

## ASSY-PCB,SECAM-L

\* HA95-900019 AZ660031 ASSY-PCB,SECAM-L;-;TSB,S15A,PAL/SEC-L;-;

DL01 0401-001024 AZ462003 DIODE-SWITCHING;BAW75,25V,300MA,DO-35,TP  
DL02 0401-001024 AZ462003 DIODE-SWITCHING;BAW75,25V,300MA,DO-35,TP  
DZL010403-000563 AZ461010 DIODE-ZENER,MTZ9.1B,9.1V,8.57-9.01V,500mW,  
QL06 0501-000283 AZ561001 TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-  
QL05 0501-000389 AZ561003 TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-  
QL02 0504-000123 AZ561007 TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP  
QL04 0504-000123 AZ561007 TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP  
QL03 0504-000137 AZ561009 TR-DIGITAL;KSR1202,PNP,300mW,10K-10K,TO-9  
ICL01 1204-000457 AZ661016 IC-IF CIRCUIT;STV8225,DIP,14P;-;13V,350mW,  
RL06 2001-000241 AZ261152 R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M  
RL07 2001-000241 AZ261152 R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M  
RL15 2001-000281 AZ261101 R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL13 2001-000290 AZ261103 R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL12 2001-000362 AZ261151 R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL17 2001-000405 AZ261181 R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL05 2001-000522 AZ261223 R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL18 2001-000563 AZ261273 R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL14 2001-000780 AZ261471 R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL08 2001-000857 AZ261561 R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL09 2001-000864 AZ261563 R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM  
RL16 2003-001037 AZ263020 R-METAL OXIDE(S);39ohm,5%,2W,AF,TP,3.9x10mm  
CL08 2201-000292 AZ163007 C-CERAMIC,DISC,1nF,10%,50V,Y5P,TP,5x4.5mm  
CL07 2306-000122 AZ162029 C-FILM,MPPF,100nF,5%,50V,TP,7.3x4.0x5.0mm,  
CL03 2401-000440 AZ164007 C-AL;10uF,20%,25V,GP,TP,5x11.5  
CL05 2401-000471 AZ164008 C-AL;10uF,20%,50V,BP,TP,5x11.5mm  
CL04 2401-001264 AZ164020 C-AL;4.7uF,20%,50V,BP,TP,5x11.5  
CL09 2401-001264 AZ164020 C-AL;4.7uF,20%,50V,BP,TP,5x11.5  
CL12 2401-001264 AZ164020 C-AL;4.7uF,20%,50V,BP,TP,5x11.5  
CL13 2401-001264 AZ164020 C-AL;4.7uF,20%,50V,BP,TP,5x11.5  
CL10 2401-001363 AZ164023 C-AL;470uF,20%,16V,GP,TP,10x12.5mm,  
CL06 2401-001495 AZ164025 C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP  
SFL01 2904-001144 AZ664009 FILTER-SAW AV;40.4MHz,SIP5K,TP,14.9dB,L/L;-  
CN7033711-002642 AZ664017 CONNECTOR-HEADER;BOX,3P,1R,2.5MM,STRAIGHT,SN  
CN703A3711-002706AZ664026 CONNECTOR-HEADER;NOWALL,8P,1R,2.5mm,ANGLE,SN  
CN704A3711-002706AZ664026 CONNECTOR-HEADER;NOWALL,8P,1R,2.5mm,ANGLE,SN  
CNL01AAA39-20050AAZ660003 LEAD-CONNECTOR,ASSY;-;YBNH025-03,S,3P,200,1007#26

## REMOCON

AA59-00088A AZ660008 REMOCON;DP,TM59,AA59-00082A,-;-;-;-;-;

## ASSY-CRT

AA63-60028A AZ664086 SPACER-DY;NEOPRENE;-;BLK,V0 W12,-;-  
AA27-50005G AZ664042 DEFLECTION-YOKE;-;DST-21944(2),21/A51EER131XS  
AA27-00002A AZ664092 MAGNET-CONVERGENCE;-;JH291-SC-OB,29.1MM  
AA03-00091A AZ664107 CRT-COLOR;A51EER133X77,BARE,+400MG,21,9

## ASSY-SPEAKER

3001-001039 AZ664037 SPEAKER;3W,16ohm,90dB,180Hz  
AA39-20500C AZ664110 LEAD CONNECTOR-ASSY;-;67096003,REC,3(2),600,1007#

## ASSY-POWER,CORD

AA39-10001G AZ664041 POWER-CORD;-;KKP-419C,KLCE-2F,2.286M,HOU  
AA61-20284A AZ664044 HOLDER;-;P-CORD,PP,V0,BLK,KE-002

## ASSY-ACCESSORY

HA68-00620A AZ664069 MANUAL-USERS;S15A,A/P80(G),FRENCH,TSB,NON-T

## 7-7 CI14T01B5X/TSB(CI14T01B5X and CI14R01B5X Dissimilar Parts)

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
<b>ASSY-PCB,MAIN(OPT)</b>					<b>REMOCON</b>				
	HA94-01781A	AZ660028	ASSY-PCB,MAIN(OPT);CI14T01,S15A,TSB,PHIL			AA59-00088B	AZ664100	REMOCON;DP,MT59,AA59-00082B,.....	
C908	2201-000980	AZ163015	C-CERAMIC,DISC,30pF,5%,50V,CH,TP,5.0x3.0		<b>ASSY-ACCESSORY</b>				
C909	2201-000980	AZ163015	C-CERAMIC,DISC,30pF,5%,50V,CH,TP,5.0x3.0			HA68-00614A	AZ664101	MANUAL-USERS;S15A,A/P80(G),14T01,ENG,TSB	
C922	2401-002144	AZ164030	C-AL,47uF,20%,16V,GP,TP,5x11.1						
CP02	2401-001914	AZ164040	C-AL,1uF,20%,50V,BP,TP,5x11.5						
CT05	2202-000154	AZ161151	C-CERAMIC,MLC-AXIAL;150PF,10%,50V,Y5P,TP						
IC802	1203-000644	AZ661010	IC-POSIFIXED REG.,7630,SIP,10P,-,PLASTI						
IC901	AA09-00016A	AZ661027	IC-MCU;SAA5562M3-XXX,52P,ST,8BIT,-12MHz,						
QP01	1203-001752	AZ661015	IC-POSIFIXED REG,LF33CV,TO-220,3P,-,PL						
R416	2008-001098	AZ263053	R-FUSIBLE(S);680HM,5%,1/2W,AC,BK,2.5X6.5						
R820	2008-001013	AZ263061	R-FUSIBLE(S);1.2ohm,5%,2W,AF,TP,3.9x10mm						
R909	2001-000613	AZ261392	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
R936	0403-000551	AZ461008	DIODE-ZENER;MTZ3.9B,3.9V,3.89-4.16V,500mW						
R940	2001-000007	AZ161302	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
RT01	2001-000539	AZ261243	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
RT06	2001-000362	AZ261151	R-CARBON;150KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
RW9012011-000531	AZ263063	R-NETWORK;4.7KOHM,5%,1/8W,A,SIP,8P,TP							
X901	2801-001476	AZ663008	CRYSTAL-UNIT,12.0MHz,50ppm,28-ABQ,S,30oh						

## 7-8 CI14R01B5X/TSB

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks	Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
<b>ASSY-PCB,MAIN</b>									
* HA94-01782A	AZ660018	ASSY-PCB,MAIN(OPT);CI14R01,S15A,TSB,PHILIPS			DZ907	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
D201	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		D903	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
D205	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ802	0403-000297	AZ461002	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,	
D209	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ808	0403-000300	AZ461004	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,	
D210	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ201	0403-000355	AZ461005	DIODE-ZENER;UZ5.1BSB,5.1V,4.97-5.18V,500mW,	
D212	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ203	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D701	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ205	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D809	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ208	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D901	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ501	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D905	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ502	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D906	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ503	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D907	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ504	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D908	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ701	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
DA01	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ702	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
J198	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ703	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D912	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ704	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
J190	0401-000005	AZ462001	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ705	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D801	0402-000102	AZ462004	DIODE-BRIDGE,D2SB60,600V,1.5A,-		DZ901	0403-000563	AZ461010	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D401	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		DZ301	0403-000660	AZ461011	DIODE-ZENER;MTZ22A,22V,20.15-21.2V,500mW,D	
D402	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		DZ302	0403-001039	AZ461014	DIODE-ZENER;MAZ560,56V,52-60V,1W,DO-41,TP	
D407	0402-000132	AZ462005	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP		DZ801	0403-001118	AZ461015	DIODE-ZENER;MTZ30A,32V,26.99-28.39V,500mW,	
D804	0402-000213	AZ462006	DIODE-RECTIFIER;ERB12,06,600V,1.0A,DO-41,TP		Q703	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-	
D501	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		Q203	0501-000283	AZ561001	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-	
D810	0402-000254	AZ462009	DIODE-RECTIFIER;RGP10J,600V,1A,DO-41,TP		Q402	0501-000369	AZ561002	TR-SMALL SIGNAL;KSC2331,-NPN,1W,TO-92L,-,120-	
D404	0402-000534	AZ462011	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,TP		Q201	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D805	0402-000534	AZ462011	DIODE-RECTIFIER;RG10V,400V,1.2A,DO-201,TP		Q202	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D802	0402-000540	AZ462012	DIODE-RECTIFIER;RU20A,600V,1.5A,-,TP		Q204	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D403	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		Q701	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D405	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		Q901	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D406	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		Q903	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D502	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		QA01	0501-002183	AZ561005	TR-SMALL SIGNAL;KTC9014,NPN,625mW,TO-92,TP,100	
D503	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		Q401	0502-001115	AZ561006	TR-POWER;KSC5386,NPN,50W,TO-3PF,ST,8-	
D504	0402-001105	AZ462014	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,TP		Q904	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
DZ401	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		Q905	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
DZ809	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		Q906	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
DZ905	0403-000296	AZ461001	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,		Q908	0504-000123	AZ561007	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP	
					Q907	0504-000125	AZ561008	TR-DIGITAL;KSR1012,NPN,300mW,47K,TO-92,TP	
					PC801	0604-001038	AZ661001	PHOTO-COUPLER;TR,130-260V,200mW,DIP-4,ST	
					IC902	1103-001105	AZ661004	IC-EEPROM;24C040,4KX1BIT,DIP,8P,300MIL,1	
					IC601	1201-001147	AZ661006	IC-AUDIO AMP;7056B,SIP,9P,-,SINGLE,41.5DB,P	
					IC501	1201-001159	AZ661007	IC-VIDEO AMP;6107,ZIP,9P,300MIL,SINGLE,-,PL	

## Electrical Parts List

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
DZ903	1203-000451	AZ661009	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,	
IC802	1203-000575	AZ661010	IC-POS. ADJUST REG;8133,SIP9P,-,PLASTIC,5/5,2V,-	
DZ803	1203-001217	AZ661013	IC-POS. ADJUST REG. 431,TO-92,3P,4.58MIL,PLASTIC,2	
IC801	1203-001494	AZ661014	IC-PWM CONTROLLER;3S0680RF,TO3PF-5L,5,210,PLASTI	
IC201	1204-001439	AZ661030	IC-VIDEO PROCESS;TDA8841,DIP56P,-,PLASTIC,8.0V	
IC301	1204-001541	AZ661020	IC-VERTICAL DEF. TDA8356/N6A,SIP9P,-,PLASTIC,4	
NT801	1404-000187	AZ664038	THERMISTOR-NTC;4.7ohm,15%,2800K,27.2mW/C,TP	
P801	1404-001048	AZ664039	THERMISTOR-PTC;7ohm,30%,200/220V,270V,19A,-B	
D800	1405-000187	AZ664040	VARIATOR;750V,1250A,12.5x7mm,TP	
R705	2001-000003	AZ261331	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R201	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R208	2001-000005	AZ261391	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R954	2001-000006	AZ261242	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R207	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R219	2001-000008	AZ261153	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
J163	2001-000019	AZ262100	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R408	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R808	2001-000022	AZ262330	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R406	2001-000037	AZ262331	R-CARBON(S);330ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R928	2001-000066	AZ662103	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R405	2001-000117	AZ262680	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R706	2001-000221	AZ261122	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R908	2001-000232	AZ261132	R-CARBON;1.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R603	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R905	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R948	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA02	2001-000241	AZ261152	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R611	2001-000258	AZ261182	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R303	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R962	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
DZ909	2001-000273	AZ261104	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R202	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R203	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R204	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R212	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R213	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R214	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R226	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R234	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R510	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R511	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R512	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R701	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R903	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R904	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R916	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R917	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R918	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R922	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R923	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R952	2001-000281	AZ261101	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R221	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R910	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R919	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R926	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R927	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R960	2001-000290	AZ261103	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R211	2001-000331	AZ261123	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R610	2001-000347	AZ261133	R-CARBON;13KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R232	2001-000356	AZ261154	R-CARBON;150KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R210	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R251	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R714	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R956	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R950	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R507	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R508	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R509	2001-000429	AZ261102	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R217	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R924	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R925	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R934	2001-000449	AZ261222	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R906	2001-000472	AZ261272	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R938	2001-000472	AZ261272	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R216	2001-000490	AZ261201	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R225	2001-000554	AZ261271	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Replacement No	Parts No	Description : Specification	Remarks
R224	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R231	2001-000563	AZ261273	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R218	2001-000591	AZ261332	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R909	2001-000605	AZ261362	R-CARBON;3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R809	2001-000622	AZ261304	R-CARBON;300KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R940	2001-000660	AZ261333	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R241	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R242	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R604	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R902	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R936	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R937	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R951	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA03	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RA04	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R932	2001-000734	AZ261472	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R200	2001-000780	AZ261471	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R230	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R237	2001-000793	AZ261470	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R713	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R715	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R717	2001-000812	AZ261562	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R240	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R901	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R228	2001-000832	AZ261511	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R920	2001-000864	AZ261563	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R912	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RA01	2001-000924	AZ261681	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R223	2001-000938	AZ261680	R-CARBON;68ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R702	2001-000969	AZ261750	R-CARBON;750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R907	2001-000995	AZ261821	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R407	2001-001037	AZ262398	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R504	2001-001062	AZ262106	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R403	2001-001114	AZ262271	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R811	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm	
R824	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm	
R805	2001-001134	AZ262361	R-CARBON;360ohm,5%,1/2W,AA,BK,2.4x6.4mm	
R822	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R823	2001-001150	AZ262474	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m	
DZ804	2001-001170	AZ262689	R-CARBON(S);6.8ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R803	2001-001178	AZ262681	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ04	2001-001182	AZ262752	R-CARBON(S);7.5KOHM,5%,1/2W,AA,TP,2.4X6.4M	
R501M	2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm	
R502M	2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm	
R503	2002-001008	AZ263001	R-COMPOSITION;1.8Kohm,5%,1/2W,AA,TP,3.7x9mm	
R806	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R807	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
RX801	2002-001011	AZ263005	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm	
R810	2003-000527	AZ263009	R-METAL OXIDE(S);18Kohm,5%,2W,AA,TP,4x12mm	
R414	2003-000540	AZ263011	R-METAL OXIDE(S);1KOHM,5%,2W,AF,TP,4X12MM	
R236	2003-000634	AZ263012	R-METAL OXIDE(S);3.9Kohm,5%,1W,AA,TP,3.3x9mm	
R402	2003-000664	AZ263002	R-METAL OXIDE(S);330OHM,5%,2W,AF,TP,4X12MM	
R412	2003-000664	AZ263002	R-METAL OXIDE(S);330OHM,5%,2W,AF,TP,4X12MM	
R812	2003-000713	AZ263013	R-METAL OXIDE(S);470OHM,5%,2W,AF,TP,4X12MM	
R826	2003-000713	AZ263013	R-METAL OXIDE(S);470OHM,5%,2W,AF,TP,4X12MM	
R413	2003-000784	AZ263014	R-METAL OXIDE(S);7.5Kohm,5%,2W,AF,TP,4x12mm	
R801	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R802	2003-000994	AZ263015	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm	
R307	2003-001026	AZ263018	R-METAL OXIDE(S);180OHM,5%,2W,AF,TP,3.9X	
C918	2003-001030	AZ263019	R-METAL OXIDE(S);2.4Kohm,5%,1W,AF,TP,2.5x6.5mm	
R825	2003-001040	AZ263021	R-METAL OXIDE(S);47Kohm,5%,2W,AF,TP,3.9x10mm	
R302	2003-001043	AZ263064	R-METAL OXIDE(S);510ohm,5%,1W,AF,TP,2.5x6.5mm	
R930	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R931	2004-000218	AZ263025	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R929	2004-000253	AZ263026	R-METAL;11KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R227	2004-001234	AZ263029	R-METAL;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R818	2004-001371	AZ263030	R-METAL(S);1.5Kohm,1%,1/2W,AA,TP,2.4x6.4m	
R819	2004-001390	AZ263031	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R252	2004-001914	AZ263032	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
R817	2004-001983	AZ263034	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R301	2004-001983	AZ263034	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R215	2004-001995	AZ263035	R-METAL;9.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R305	2004-004087	AZ263059	R-METAL(S);1.5OHM,1%,1/2W,AA,TP,2.5X6.5MM	
R816	2004-004089	AZ263037	R-METAL;123KOHM,1%,1/2W,AA,TP,2.5X6.5M	
R409	2008-000204	AZ263038	R-FUSIBLE(S);0.22ohm,10%,1/2W,AF,TP,2.5x6.5	
R415	2008-000206	AZ263039	R-FUSIBLE(S);1ohm,5%,1/2W,AF,TP,2.5x6.5MM	
R306	2008-000254	AZ263041	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	

Loc.No.	Replacement No	Parts No	Description ; Specification	Remarks
R417	2008-000259	AZ263060	R-FUSIBLE(S);1.8ohm,5%,2W,AA,TP,3.9x10mm	
R821	2008-000266	AZ263044	R-FUSIBLE(S);10HM,5%,2W,AF,TP,3.9X10MM	
R814	2008-000271	AZ263062	R-FUSIBLE(S);3.30HM,5%,2W,AA,TP,3.9X10MM	
R815	2008-000271	AZ263062	R-FUSIBLE(S);3.30HM,5%,2W,AA,TP,3.9X10MM	
R404	2008-000294	AZ263047	R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm	
R820	2008-000299	AZ263048	R-FUSIBLE(S);47ohm,5%,2W,AF,TP,3.9x10mm	
R505	2008-001011	AZ263049	R-FUSIBLE(S);0.18ohm,10%,2W,AF,TP,3.9x10mm	
R416	2008-001047	AZ263065	R-FUSIBLE(S);680HM,5%,2W,AF,TP,3.9X10MM	
RW702	2011-001098	AZ263057	R-NETWORK;75/75/1K/75ohm,5%,PLCC,5P,	
RW701	2011-001133	AZ263058	R-NETWORK;33K/24K/75x3,5%,1/BW,X,SIP,6P,	
C907	2201-000119	AZ163001	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,8x3.5	
C908	2201-000193	AZ163003	C-CERAMIC,DISC;10pF,0.3pF,50V,CH,TP,5x3.5	
C909	2201-000193	AZ163003	C-CERAMIC,DISC;10pF,0.3pF,50V,CH,TP,5x3.5	
C912	2201-000234	AZ163004	C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3.5	
C228	2201-000247	AZ163005	C-CERAMIC,DISC;15PF,5%,50V,CH,TP,5X3,5	
C213	2201-000273	AZ163006	C-CERAMIC,DISC;18pF,5%,50V,CH,TP,5x3mm,5	
C813	2201-000446	AZ163009	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x8,10m	
C403	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5	
C417	2201-000556	AZ163011	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4.5	
C922	2201-000573	AZ163012	C-CERAMIC,DISC;47pF,5%,50V,CH,TP,6.5x3.0,5	
C927	2201-000573	AZ163012	C-CERAMIC,DISC;47pF,5%,50V,CH,TP,6.5x3.0,5	
C402	2201-000599	AZ163013	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4.5	
C419	2201-000984	AZ163016	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6,7.5m	
C807	2201-000991	AZ163018	C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7,7.5	
C810	2201-000991	AZ163018	C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7,7.5	
C503	2201-002063	AZ163019	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP,16x5,7	
C704	2202-000121	AZ161101	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
DZ902	2202-000127	AZ161103	C-CERAMIC,MLC-AXIAL;10NF,+80-20%,25V,Y5V,-7.5,TP	
C601	2202-000210	AZ161271	C-CERAMIC,MLC-AXIAL;270PF,10%,50V,Y5P,TP,1.9X3.5,7	
C614	2202-000230	AZ161331	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
C301	2202-000253	AZ161472	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP,1.9x3.5,7	
C302	2202-000253	AZ161472	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP,1.9x3.5,7	
C702	2202-000263	AZ161471	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP,3.5x19,-	
C223	2202-000286	AZ161560	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.9x3.5,-	
C209	2202-000794	AZ161180	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.5x19mm,-	
C212	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C613	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C902	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C904	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C919	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C926	2202-000796	AZ161102	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
C247	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C917	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C923	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C924	2202-002037	AZ161104	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3	
C913	2301-000108	AZ162001	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm,	
C217	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C252	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C814	2301-000192	AZ162003	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C251	2301-000204	AZ162004	C-FILM,PEF;2.7nF,5%,50V,TP,7.4x3.9x13mm,5	
C502	2301-000213	AZ162005	C-FILM,PEF;220nF,5%,250V,TP,21.5x11.7,5	
C226	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C250	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C803	2301-000224	AZ162006	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C916	2301-000247	AZ162007	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
C804	2301-000310	AZ162010	C-FILM,PEF;68nF,5%,50V,TP,8.0x8.5x4.0x5.5	
C214	2301-000356	AZ162011	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
C215	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C401	2301-000383	AZ162012	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C210	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C603	2301-000445	AZ162013	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C414	2301-001065	AZ162014	C-FILM,MPPF;47nF,5%,630V,TP,19x15.5x7.7,5	
C805	2303-000163	AZ162015	C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8.5,7,5	
C409	2303-001027	AZ162031	C-FILM,PPF;4.7nF,5%,1600V,BK,31x16x9,20	
C307	2305-000149	AZ162016	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5	
C305	2305-000178	AZ162018	C-FILM,MPEF;10nF,5%,100V,TP,-5mm	
C207	2305-000196	AZ162019	C-FILM,MPEF;150NF,5%,63V,TP,-5MM	
C306	2305-000285	AZ162020	C-FILM,MPEF;220nF,5%,100V,TP,20x18x11.5,15	
C216	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C239	2305-000289	AZ162021	C-FILM,MPEF;220nF,5%,63V,TP,-5mm	
C413	2305-000382	AZ162023	C-FILM,MPEF;4.7NF,5%,400V,TP,-5MM	
C205	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,	
C206	2305-000411	AZ162024	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,	
C308	2305-000450	AZ162026	C-FILM,MPEF;56NF,5%,100V,TP,-5MM	
C211	2305-000665	AZ162027	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,	
C240	2305-000665	AZ162027	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,	
C201	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
C253	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C254	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C255	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C910	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C914	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C915	2306-000122	AZ162029	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C800	2306-000321	AZ166003	C-FILM,MPPF;470nF,5%,275V,TP,-22.5mm	
C416	2306-001004	AZ166007	C-FILM,MPPF;300NF,5%,400V,TP,26X14X21MM,20	
C248	2309-000138	AZ162030	C-FILM,PE-PPF;100nF,5%,50V,TP,20x16x8.5,7.5mm	
C808	2401-000262	AZ165001	C-AL;100uF,20%,160V,HR,TP,16x25,7.5	
C418	2401-000384	AZ165003	C-AL;100uF,20%,100V,GP,TP,6.3X11,5MM	
C506	2401-000430	AZ165004	C-AL;100uF,20%,250V,GP,TP,10X16MM,5M	
C222	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C920	2401-000480	AZ164009	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C801	2401-000534	AZ165005	C-AL;150uF,20%,400V,GP,ST,25x30,10	
C415	2401-000560	AZ165006	C-AL;1uF,20%,160V,GP,TP,6.3x11,5	
C204	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5	
C219	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5	
C249	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5	
C816	2401-000603	AZ164011	C-AL;1uF,20%,50V,GP,TP,5x11,5	
C203	2401-000660	AZ164013	C-AL;2.2uF,20%,50V,GP,TP,5x11,5	
C815	2401-000808	AZ164015	C-AL;220uF,20%,16V,GP,TP,8x11.5,5	
C304	2401-000903	AZ165007	C-AL;22uF,20%,160V,WT,TP,10X20MM,5M	
C411	2401-000927	AZ165008	C-AL;22uF,20%,250V,GP,TP,13X20MM,5M	
C101	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5	
C602	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5	
C220	2401-000939	AZ164016	C-AL;22uF,20%,25V,GP,TP,5x11,5	
C102	2401-001082	AZ164019	C-AL;330nF,20%,50V,GP,TP,5x11,5	
C504	2401-001232	AZ165009	C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5	
C705	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
C706	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
CA01	2401-001264	AZ164020	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
C604	2401-001323	AZ164021	C-AL;470nF,20%,50V,BP,TP,5x11,5mm	
C905	2401-001333	AZ164022	C-AL;470nF,20%,50V,GP,TP,5x11,5	
C230	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C238	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C818	2401-001495	AZ164025	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
CA08	2401-001530	AZ164026	C-AL;47uF,20%,25V,GP,TP,5x11,5	
C232	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C819	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C901	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
C202	2401-001840	AZ164027	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
CA04	2401-001998	AZ164029	C-AL;1000UF,20%,25V,GP,TP,10X20,5MM	
C610	2401-001998	AZ164029	C-AL;1000UF,20%,25V,GP,TP,10X20,5MM	
C911	2401-002235	AZ164031	C-AL;10UF,20%,16V,GP,TP,5X11MM,5MM	
C231	2401-002235	AZ164031	C-AL;10UF,20%,16V,GP,TP,5X11MM,5MM	
C802	2401-002284	AZ164033	C-AL;33uF,20%,50V,GP,TP,5x11,5	
C809	2401-002290	AZ165012	C-AL;47uF,20%,160V,GP,TP,13x20,5	
C103	2401-002463	AZ164035	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	
C303	2401-003028	AZ164038	C-AL;100uF,20%,25V,WT,TP,6.3x11,5	
C811	2401-003141	AZ164039	C-AL;2200UF,20%,25V,WT,TP,13X25,5MM	
CW901	2503-000156	AZ166005	C-NETWORK;100pF,X4,20%,50V	
J185	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L103	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L206	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L301	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L302	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R209	2701-000114	AZ361001	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
L306	2701-000115	AZ361002	INDUCTOR-AXIAL;10UH,10%,2.8X7MM	
L305	2701-000116	AZ361003	INDUCTOR-AXIAL;10UH,10%,4.2X9.8mm	
L901	2701-000123	AZ361019	INDUCTOR-AXIAL;150UH,10%,2.5X3.4MM	
L601	2701-000146	AZ361005	INDUCTOR-AXIAL;2.2UH,10%,2.5X3.4MM	
L304	2701-000159	AZ361007	INDUCTOR-AXIAL;22UH,10%,4.2X9.8MM	
L202	2701-000168	AZ361008	INDUCTOR-AXIAL;3.3uH,5%,2.5x3.4mm	
L702	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L703	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L704	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L706	2701-000184	AZ361010	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM	
L902	2701-000189	AZ361011	INDUCTOR-AXIAL;470NH,10%,2.5X3.4MM	
L102	2701-000212	AZ361015	INDUCTOR-AXIAL;68UH,10%,2.8X7MM	
L904	2701-000299	AZ361016	INDUCTOR-AXIAL;13UH,10%,2.5X3.4MM	
L809	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
L810	2701-001032	AZ361018	INDUCTOR-AXIAL;100UH,10%,5X14MM	
X202	2801-000226	AZ663001	CRYSTAL-UNIT;3.579545MHz,20ppm,28-AAM,15pF,	
X203	2801-003726	AZ663004	CRYSTAL-UNIT;4.433619MHz,20ppm,28-AAM,20pF,	
X901	2801-003728	AZ663005	CRYSTAL-UNIT;6MHz,30ppm,28-AAM,20pF,40ohm,T	
LA02	2801-000297	AZ662001	FILTER-EMI ON BOARD; ,3A-,,3.5X5,TP-	

Loc.No.	Replacement No	Parts No	Description : Specification	Remarks
L805	2901-000297	AZ362001	FILTER-EMI ON BOARD,-,3A,-,3.5X5,TP,-	
L807	2901-000297	AZ362001	FILTER-EMI ON BOARD,-,3A,-,3.5X5,TP,-	
Z207	2903-000277	AZ664075	FILTER-CERAMIC,BP6.0MHz,60KHz,6.0dB,-,TP,-	
Z202	2903-001023	AZ664076	FILTER-CERAMIC,TR,6.0MHz,-,TP,-	
SFN02	2904-001063	AZ664077	FILTER-SAW AV:38.9MHz,SIP5K,TP,17dB,PAL-B/G,	
L804	3301-000287	AZ362003	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G	
SW801	3403-000179	AZ662001	SWITCH-PUSH;250V,5A,DPST,-,JPW-2104B	
SW901	3404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW902	3404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW903	3404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW904	3404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW905	3404-000244	AZ662002	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
F801	3601-000261	AZ664010	FUSE-FERRULE;250V,3.15A,TIME LAG,GLASS,5x20	
F802	3601-001056	AZ664046	FUSE-FERRULE;250V,0.5A,SB,GLASS,5.2X20MM	
RF800	3601-001086	AZ664013	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
F801A	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
F801B	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
F802A	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
F802B	3602-000114	AZ664014	FUSE-HOLDER,-,30MOHM	
V999	3704-001089	AZ664047	SOCKET-CRT;7P,22.5PI,12PI,SN,-	
CN601	3711-002642	AZ664017	CONNECTOR-HEADER,BOX,3P,1R,2.5MM,STRAIGHT,SN	
CN703	3711-002648	AZ664021	CONNECTOR-HEADER,BOX,9P,1R,2.5mm,STRAIGHT,SN	
JS701	3722-000183	AZ664028	JACK-SCART;21P,4mm,SN,BLK,NO	
IC901	AA09-00007A	AZ661023	IC-MCU;oZM-521TO-R4529,42,ST,8BIT,-	
T801	AA26-20007Q	AZ363001	TRANS-SWITCHING,-,180-260V,125V/12.5V,EN,EER28	
T444	AA26-30005S	AZ363006	TRANS-FLYBACK,-,FSV-14A004(S),14,125V	
T401	AA26-50001B	AZ363005	HORIZ.DRIVE,-,7.1MH,102UH,10-20UH,YL081,ST	
CN802	AA27-20003U	AZ362008	COIL-DEGAUSSING,-,14,16.4ohm,75T,890mm,D	
L401	AA27-30003R	AZ362011	COIL-LINERITY,-,220uH,YL10x10,0.35mm,23x13mm	
LW01	AA27-40001MA	AZ362012	COIL-HORIZ.WIDTH,-,180/480uH,SB-5S6202.6,P10.8	
L801	AA29-30001G	AZ362008	FILTER-LINE,-,27mH,0.6A,-	
CN501	AA39-20109A	AZ664060	LEAD-CONNECTOR,ASSY,-,YBNH025-08,S,8P,400,1007#26	
TU01	AA40-00006A	AZ664063	TUNER-V/S,TECC0949VG29B(S),PAL-B/G,-,181	
RL901	AA59-60001U	AZ664034	MODULE-REMOCON,-,ORC-50VF/SR-12V,38KHz,940nm,	
LD901	AA96-30007A	AZ664067	ASSY-LED,GUIDE,-,AA61-50055A,DL-G7GA,GREEN	

## ASSY-PCB,A/V FRONT

* HA95-900017	AZ660016	ASSY-PCB,A/V FRONT;S15A,TSB	
AA39-20112E	AZ664057	LEAD-CONNECTOR,ASSY,-,YBNH025-09,67096-009,9P,300,	
3722-000143	AZ664027	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
3722-000506	AZ664030	JACK-RCA;2P,3.6MM,-,AG	
QE01	0501-000283	AZ561001 TR-SMALL SIGNAL,KSA539,PNP,400mW,TO-92,TP,120-	
RE05	2001-000009	AZ261203 R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RE03	2001-000010	AZ261683 R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RE04	2001-000429	AZ261102 R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RE01	2001-000117	AZ262680 R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm	
RE02	2001-000117	AZ262680 R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4mm	
CE07	2202-000222	AZ161332 C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP,-,7.5	
CE06	2202-000862	AZ161391 C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP;3.5x1.9,-	
CE03	2401-001264	AZ164020 C-AL;4.7uF,20%,50V,BP,TP;5x11.5	
CE01	2401-001840	AZ164027 C-AL;100uF,20%,16V,GP,TP;6.3x11.5	
LE01	2701-000158	AZ361006 INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm	

## ASSY-CRT

AA03-10023X	AZ664048	CRT-COLOR,-,A34EAC01X06,+380mG,14,90DEG	
AA39-20518A	AZ664062	LEAD CONNECTOR-ASSY,-,YFH806-06,-6(4)P,350MM,1617	

## REMOCON

AA59-00088A	AZ660008	REMOCON;DPTM59,AA59-00082A,-,.....	
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## ASSY-SPEAKER

AA39-20501A	AZ660061	LEAD CONNECTOR-ASSY,-,67096-003,REC,3(2),200,1007#	
3001-000275	AZ664078	SPEAKER;2.5W,16ohm,90dB,105Hz	

## ASSY-POWER,CORD

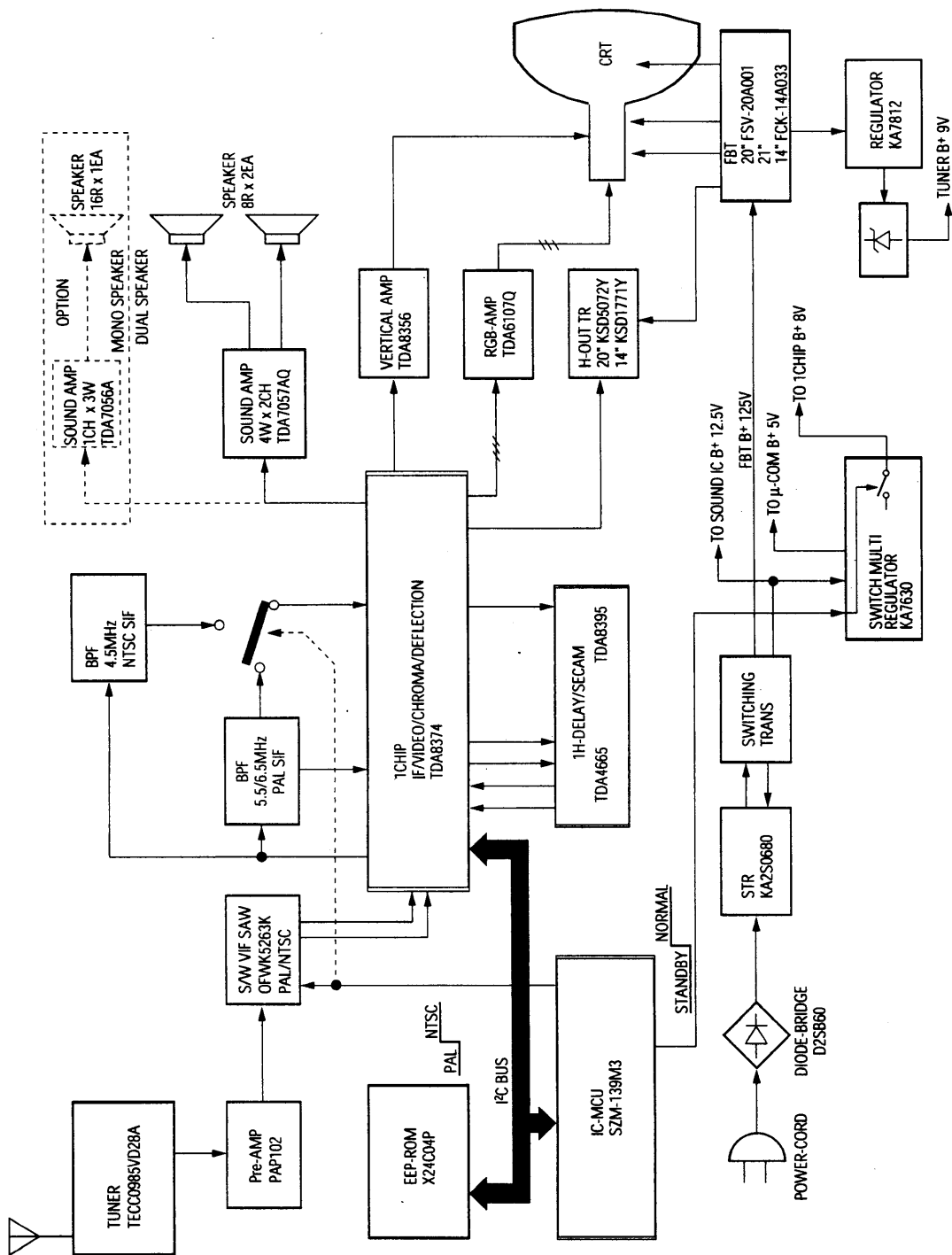
HA39-010001	AZ664079	POWER-CORD;DP,CP3,-,2.4M,BLK,AC250V,10A	
AA61-20284A	AZ664044	HOLDER,-,P-CORD,PPVO,BLK,KE-002	
HB61-200001	AZ664080	CAP-CORD,-,PP,-,RED,C1	

## ASSY-ACCESSORY

AA26-90001C	AZ664049	TRANS-MATCHING,-,300ohm/75ohm,PAL,40-890MHz	
AA42-10001V	AZ664064	ANT-ROD,-,3S,620mm,BRN,UL/CSA	
HA68-00613A	AZ664081	MANUAL-USERS;S15A,A/P80(G),14R01,ENG,TSB,NO	

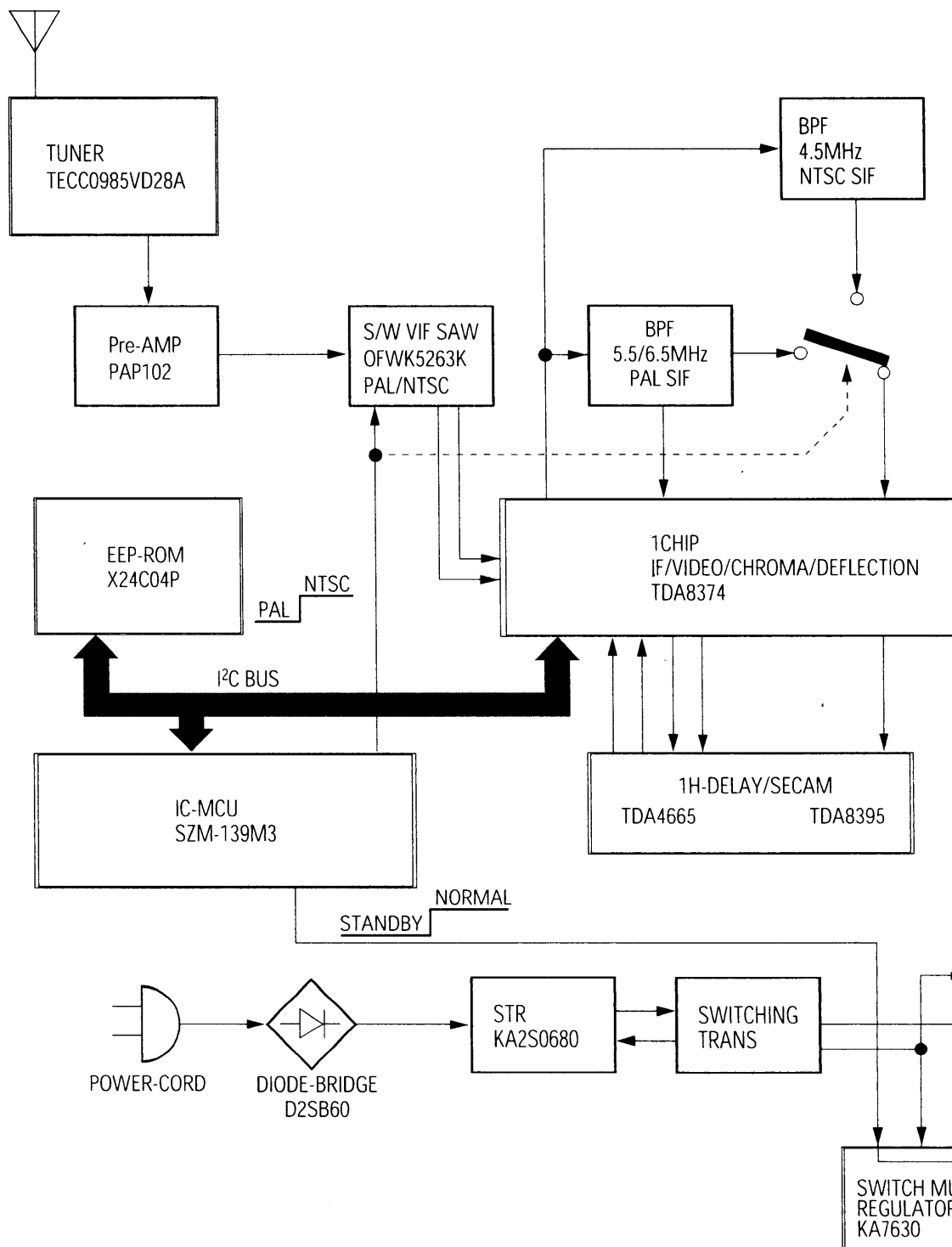
## 8. Block Diagram

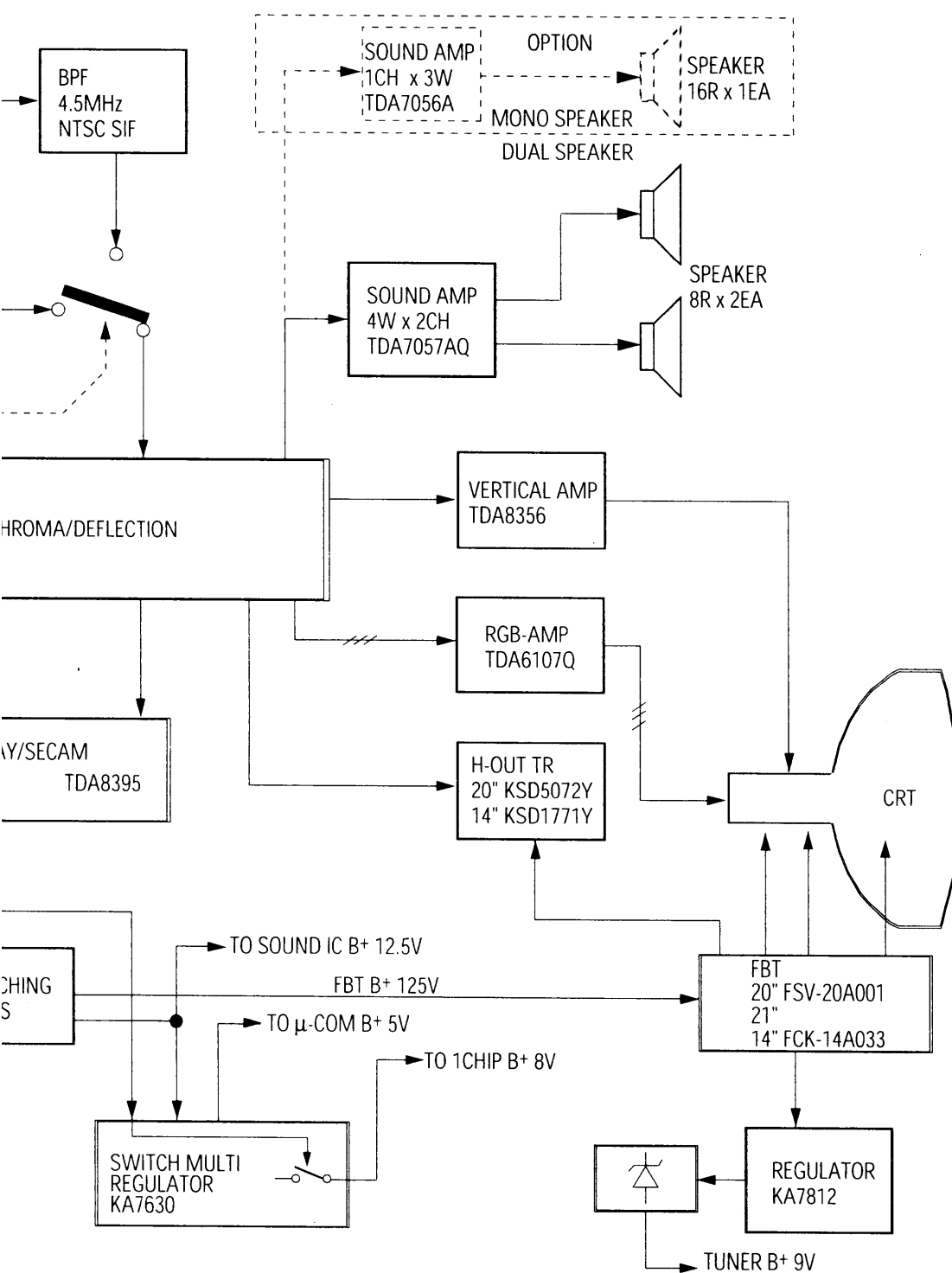
8-1 S15A

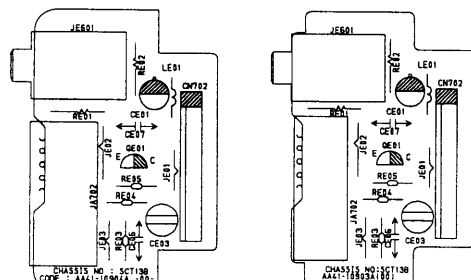


## 8. Block Diagram

### 8-1 S15A



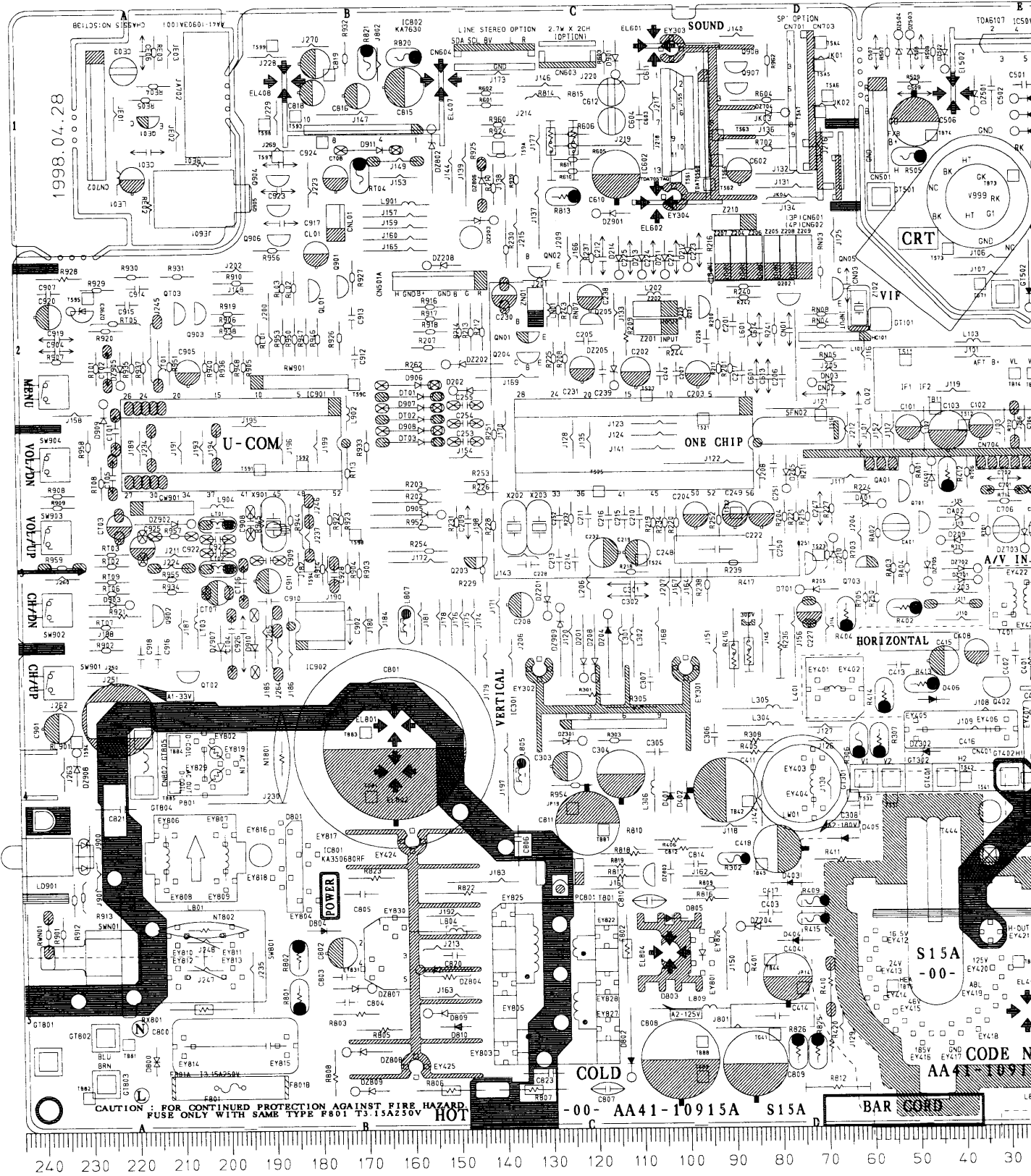


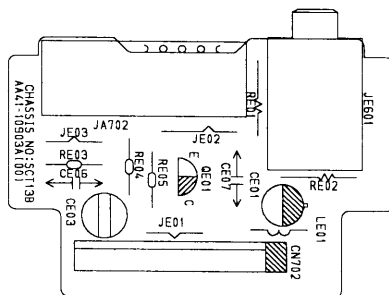
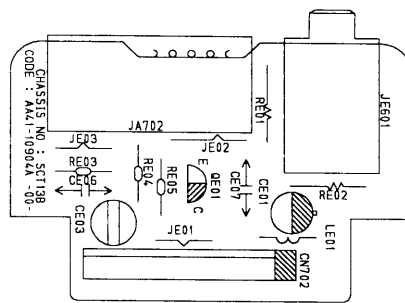
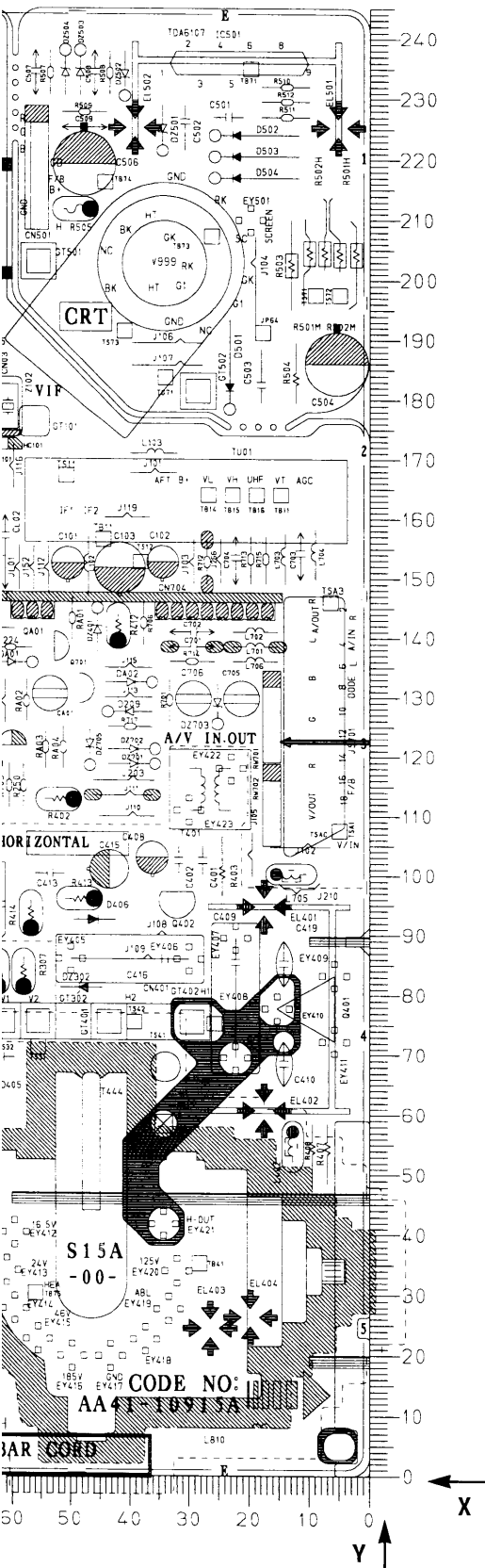


Loc. No.	X	Y	DIODE
02001	122	96	
02002	116	161	
02004	145		
02005	117	139	
02008	719	98	
02009	43	127	
02010	67	128	
02011	102	186	
02012	97	188	
02013	107	196	
02014	112	196	
02040	103	78	
02042	100	78	
02043	84	53	
02044	83	40	
02045	72	62	
02046	39	92	
02047	23	178	
02048	25	220	
02049	25	220	
02050	25	220	
02051	25	220	
02052	25	220	
02053	25	220	
02054	25	220	
02055	25	220	
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02073	25	220	
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02076	25	220	
02077	25	220	
02078	25	220	
02079	25	220	
02080	25	220	
02081	25	220	
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02099	25	220	
02100	25	220	
02101	25	220	
02102	25	220	
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02133	25	220	
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02135	25	220	
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02137	25	220	
02138	25	220	
02139	25	220	
02140	25	220	
02141	25	220	
02142	25	220	
02143	25	220	
02144	25	220	
02145	25	220	

# 9. PCB Layout

## 9-1 PCB Main

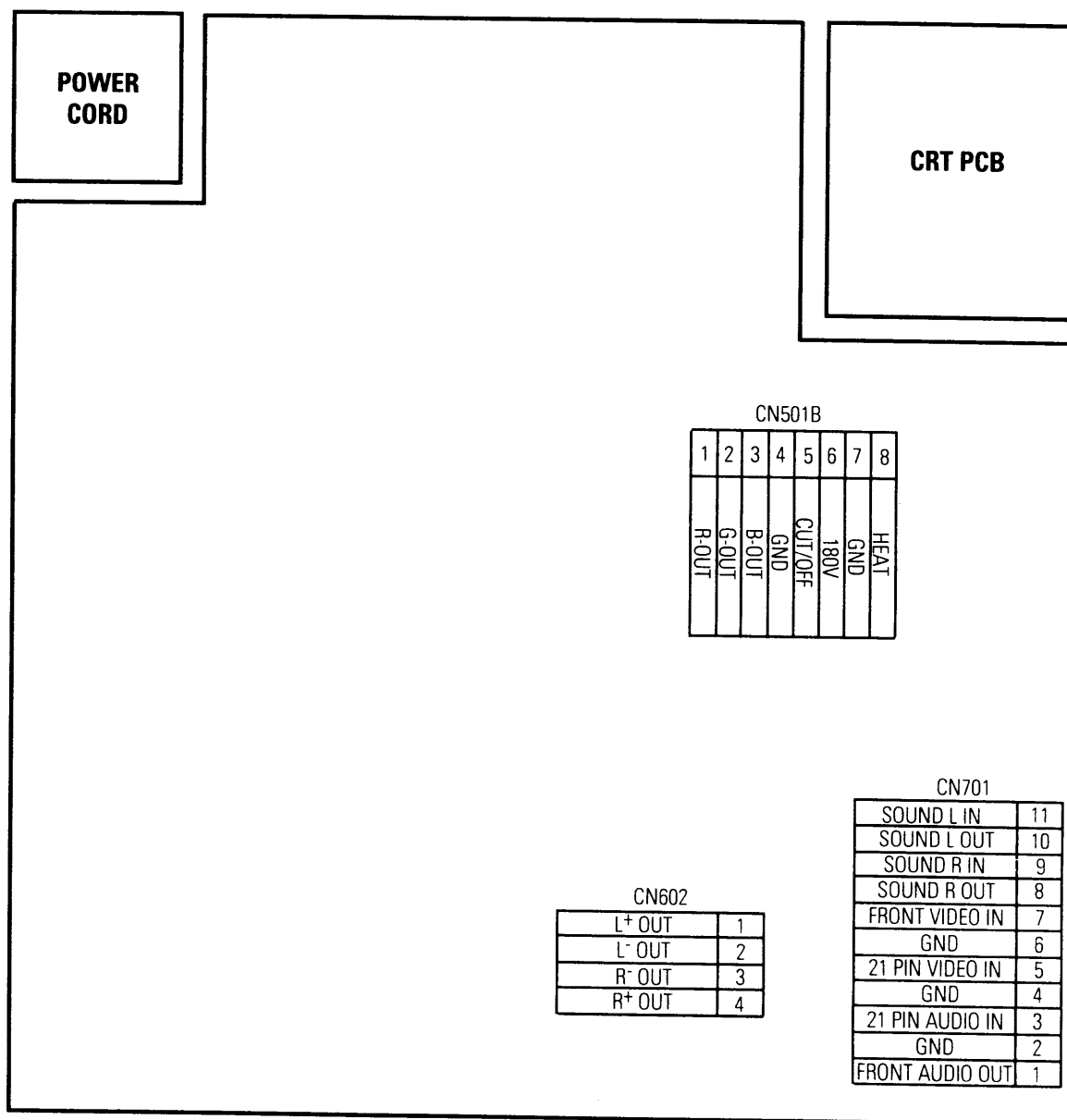




Loc. No.	X	Y	Loc. No.	X	Y
DIODE			DZ705	46	118
D201	122	98	DZ802	153	218
D202	149	161	DZ803	107	57
D204	116	112	DZ804	158	34
D205	77	139	DZ806	142	211
D208	119	98	DZ807	169	30
D209	43	127	DZ808	175	17
D210	67	128	DZ809	173	8
D211	102	186	DZ901	117	200
D212	97	188	DZ902	207	132
D213	107	186	DZ903	232	179
D214	112	186	DZ905	222	163
D401	103	78	DZ907	201	100
D402	100	78	DZ908	232	82
D403	84	53	DZ909	127	113
D404	83	40	IC		
D405	72	62	HC101	59	172
D406	39	92	IC201	86	141
D501	23	178	IC301	99	100
D502	25	224	IC501	39	225
D503	25	220	IC602	100	235
D504	25	217	IC801	160	13
D701	74	117	IC802	151	229
D800	216	19	IC901	175	142
D801	188	65	IC902	183	114
D802	113	11	TRANSISTOR		
D803	104	38	Q201	95	176
D805	97	45	Q202	78	182
D809	157	25	Q203	147	124
D810	157	22	Q204	135	169
D901	112	230	Q205	116	175
D903	220	115	Q251	73	120
D905	152	134	Q401	17	94
D906	153	162	Q402	34	95
D907	153	157	Q701	48	129
D908	153	152	Q703	57	121
D909	225	159	Q901	174	182
D910	193	100	Q902	215	110
D911	161	214	Q903	205	176
DA01	56	135	Q904	189	209
DA02	36	132	Q905	189	202
DN03	71	162	Q906	189	196
DT01	153	160	Q907	89	228
DT02	153	155	Q908	89	232
DT03	153	150	QA01	52	136
DZ201	129	111	QE01	217	222
DZ202	151	167	QL01	180	181
DZ203	140	198	QN01	135	174
DZ204	88	43	QN02	132	188
DZ205	114	162	QN05	66	180
DZ208	154	189	QT02	210	100
DZ301	122	84	QT03	210	176
DZ302	54	81			
DZ401	45	145			
DZ501	34	221			
DZ502	41	230			
DZ503	48	238			
DZ504	51	238			
DZ701	35	118			
DZ702	35	121			
DZ703	25	125			
DZ704	76	221			

## 10. Wiring Diagram

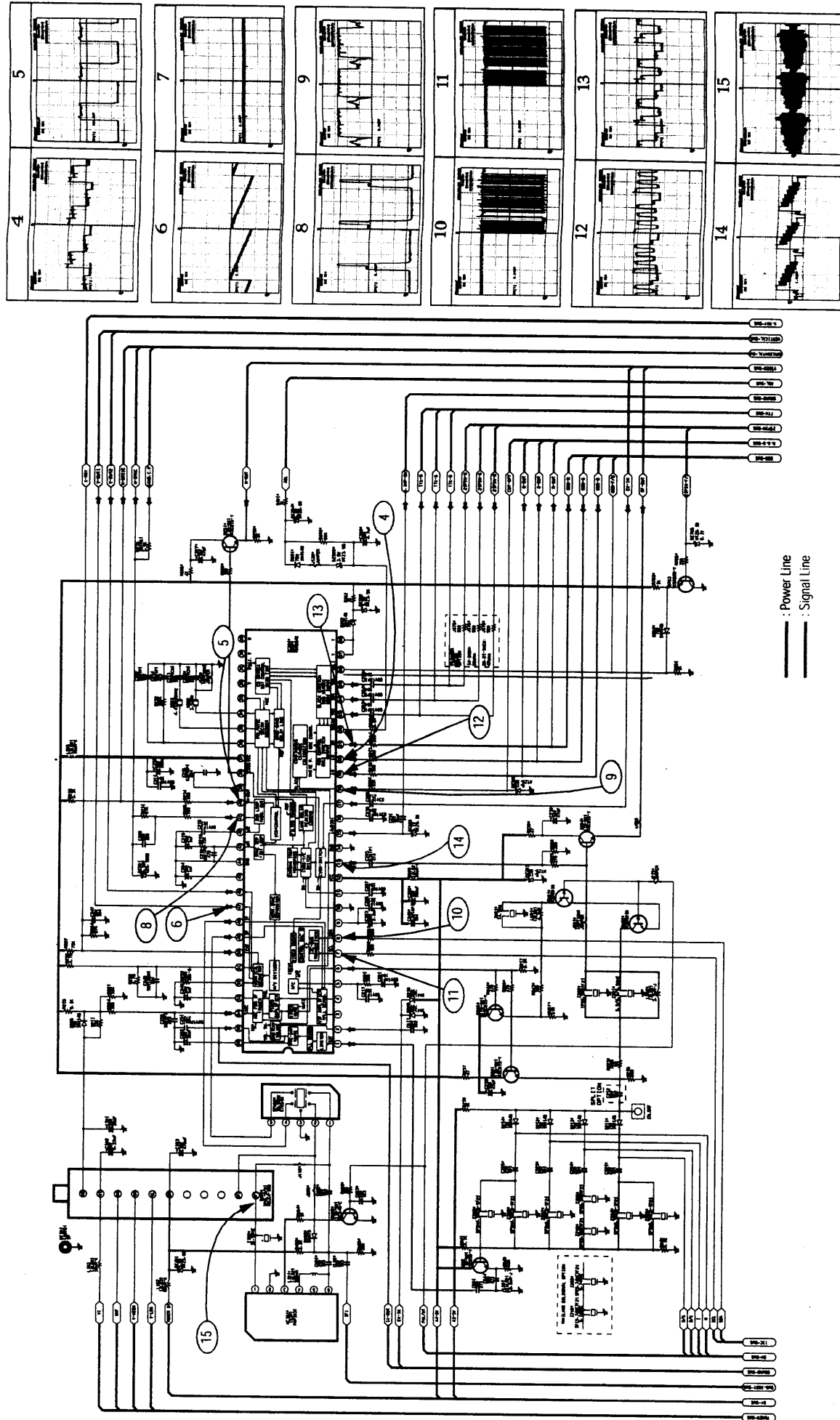
### 10-1 S15A



# MEMO

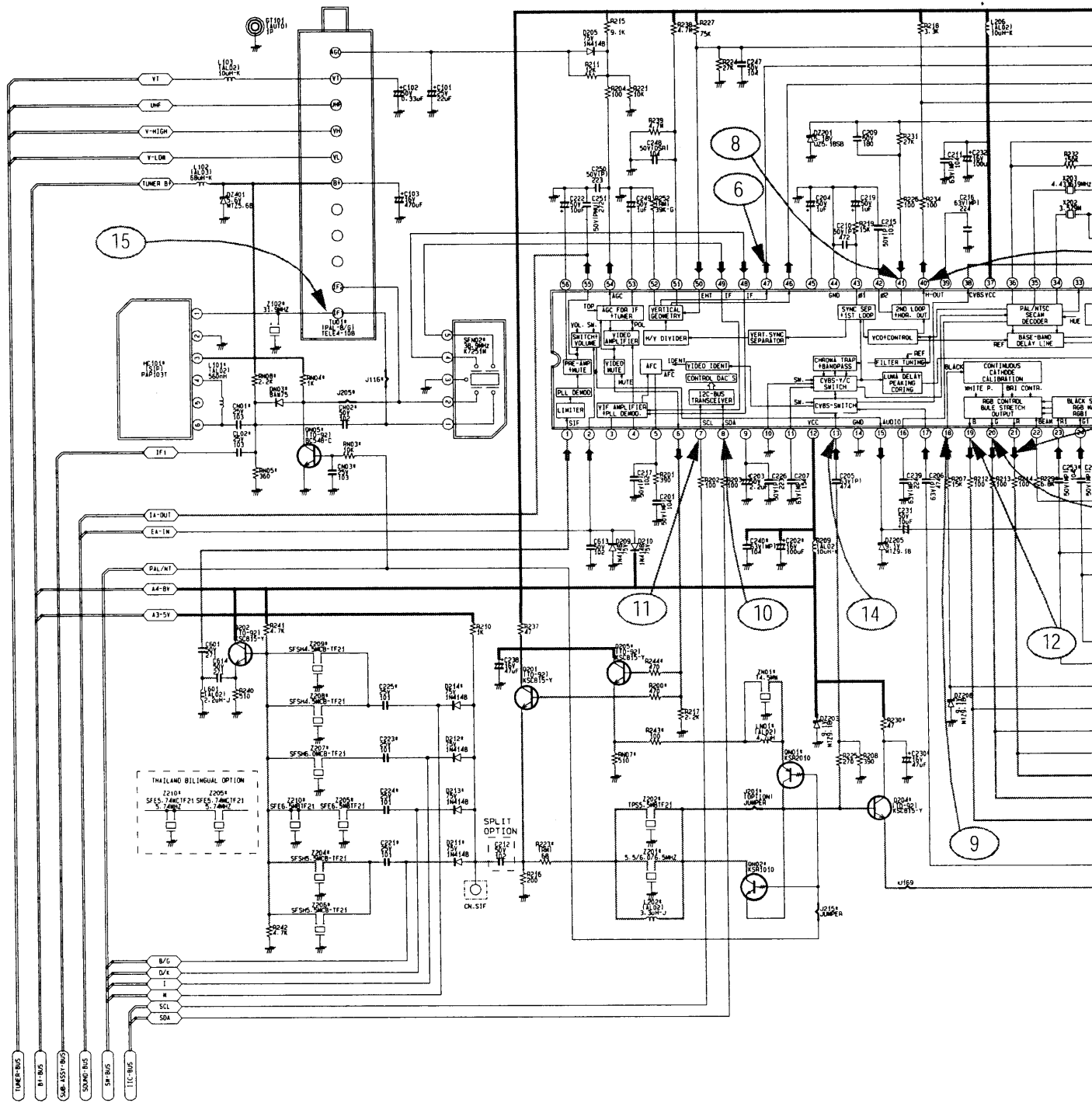
# 11. Schematic Diagrams

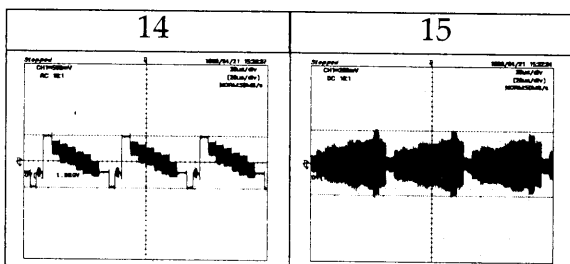
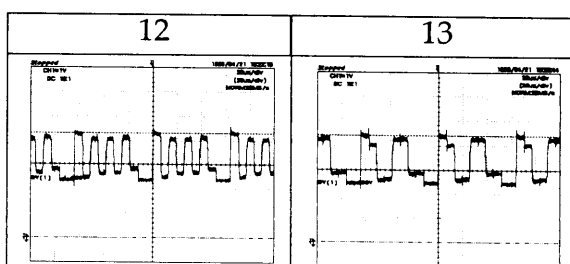
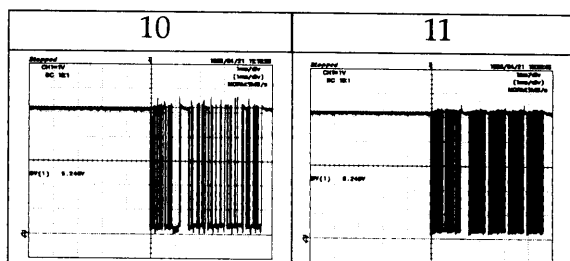
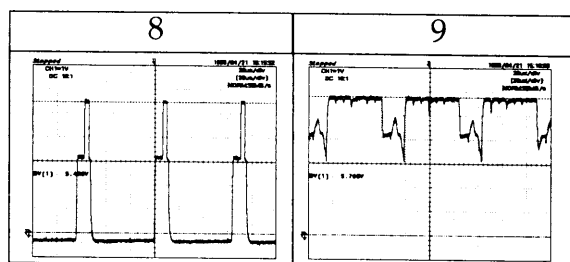
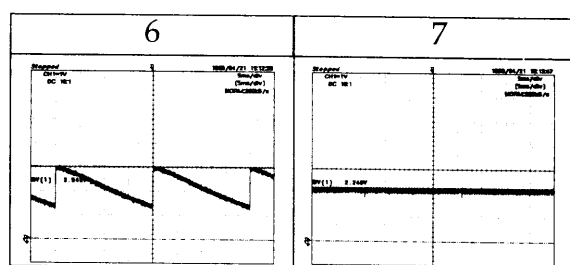
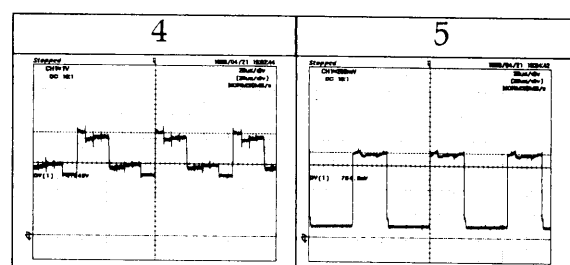
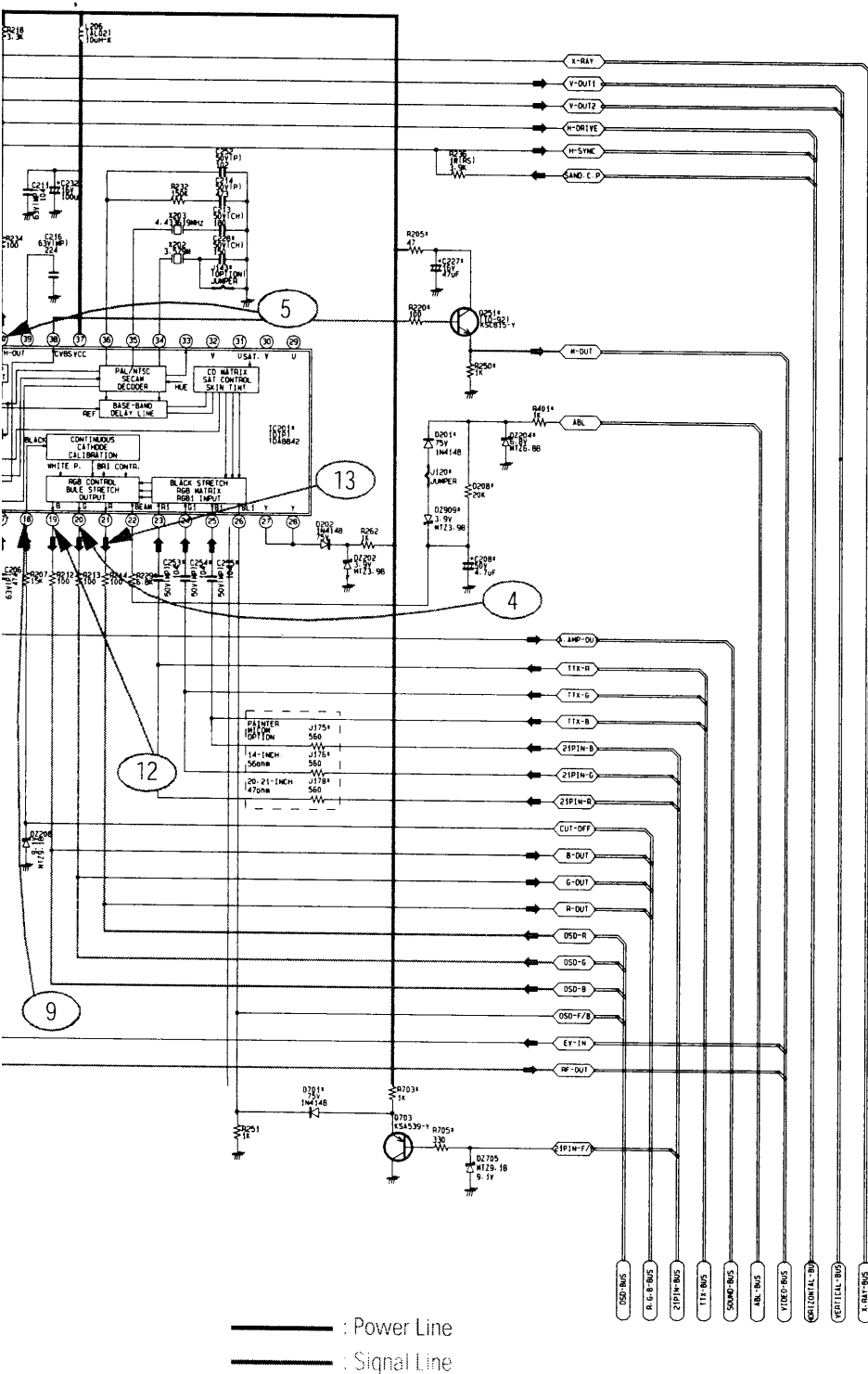
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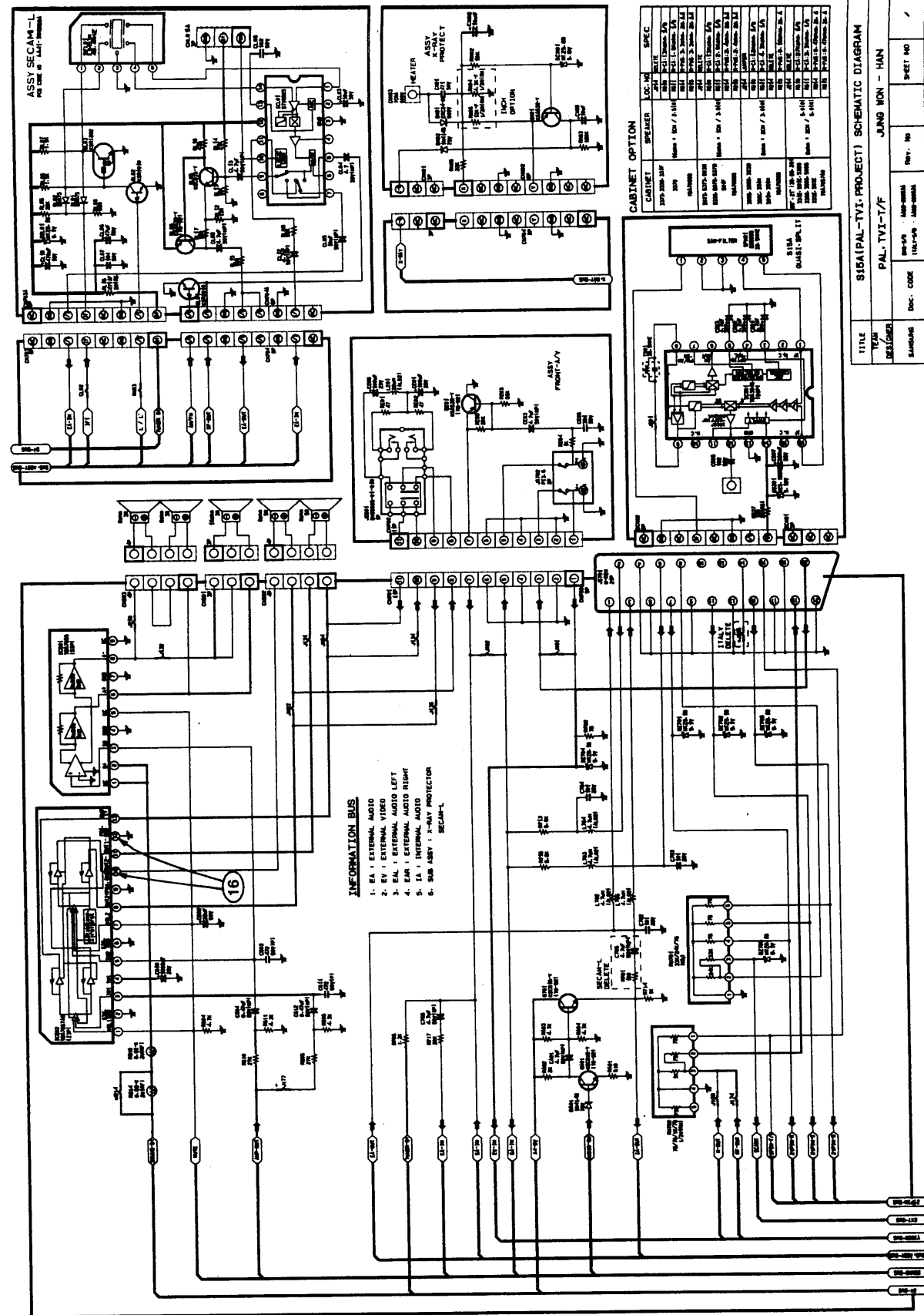


# 11. Schematic Diagrams

## 11-1 ONECHIP



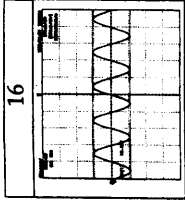
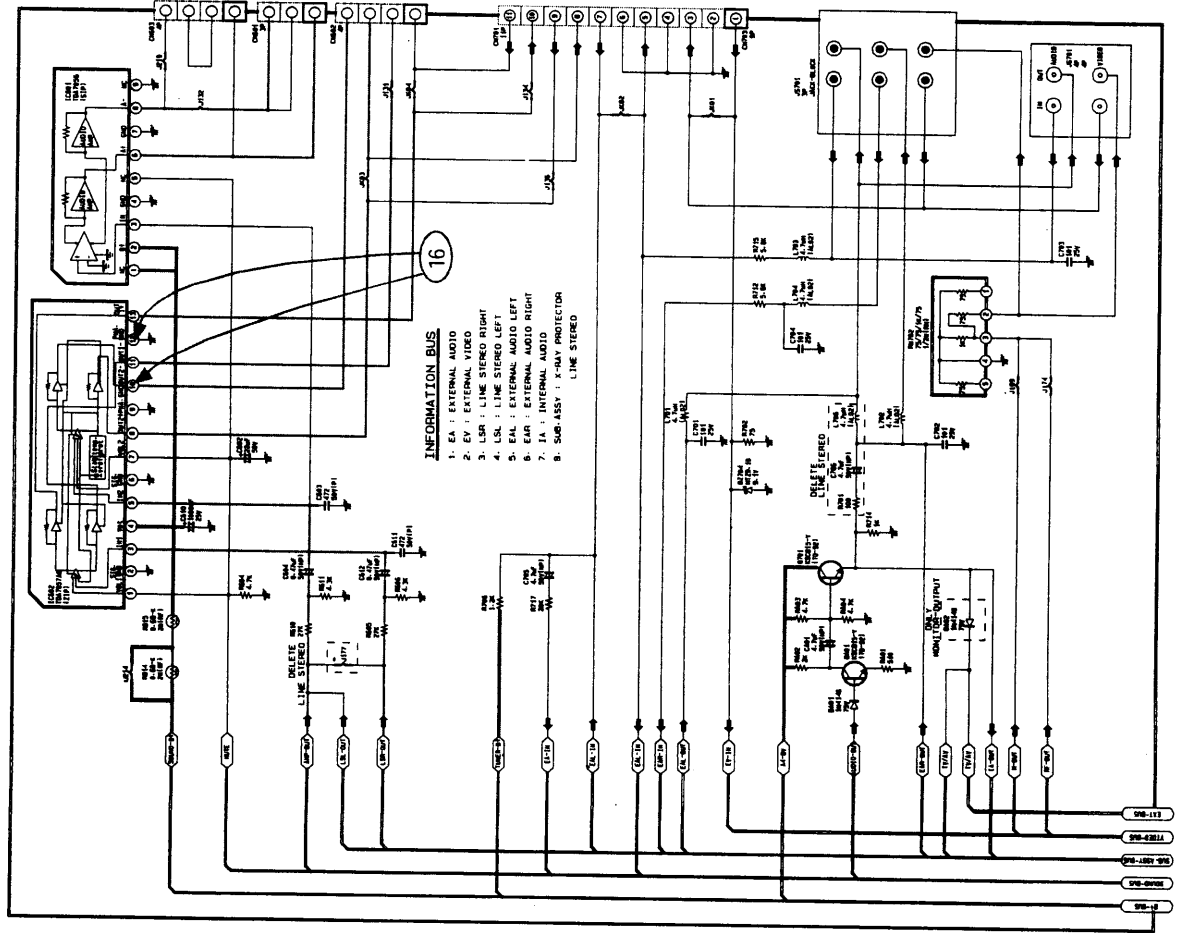






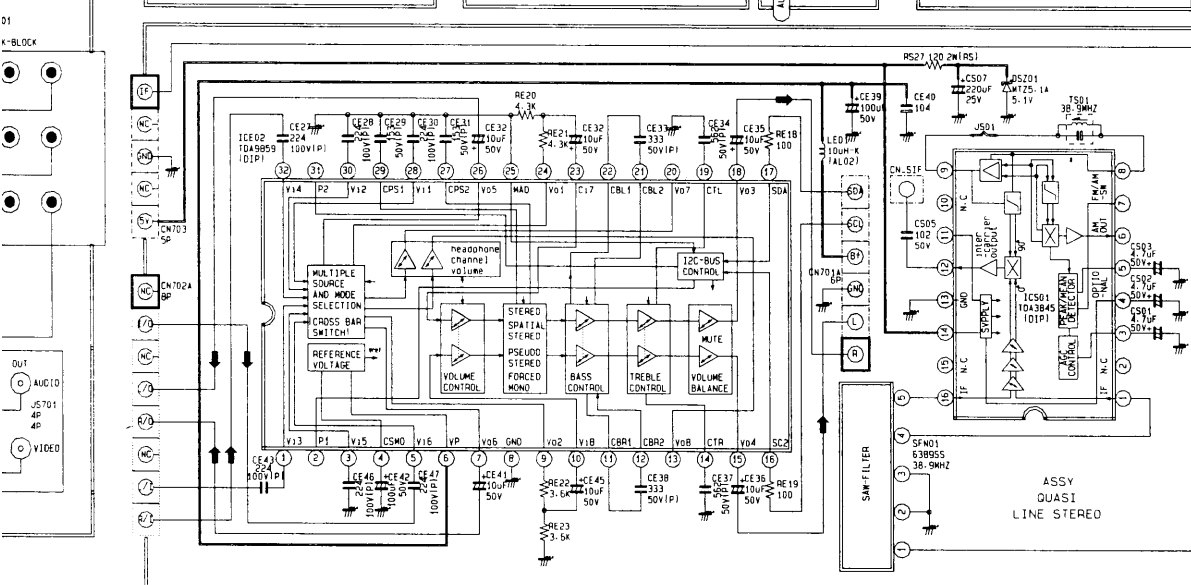
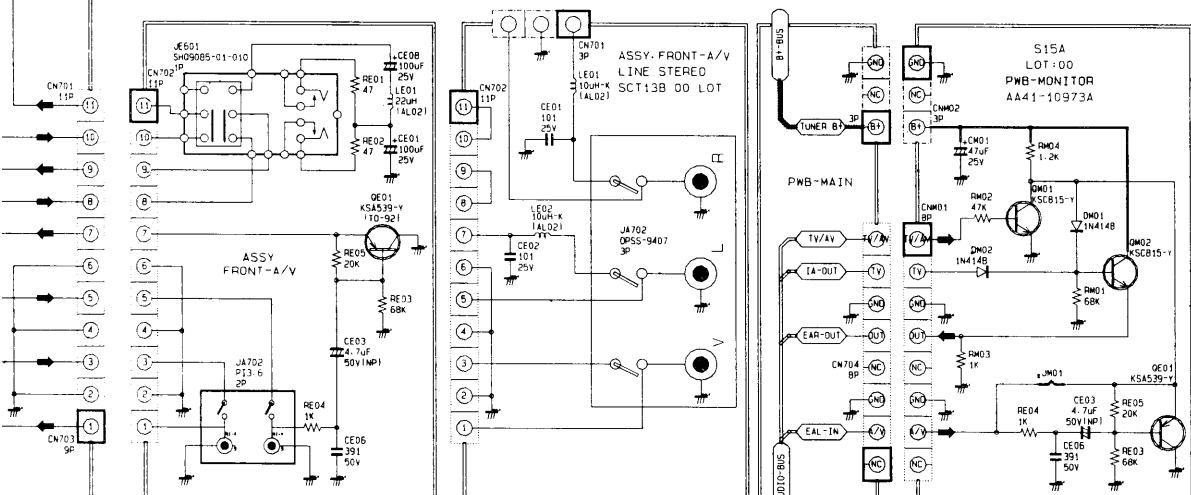
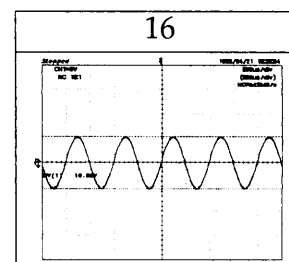
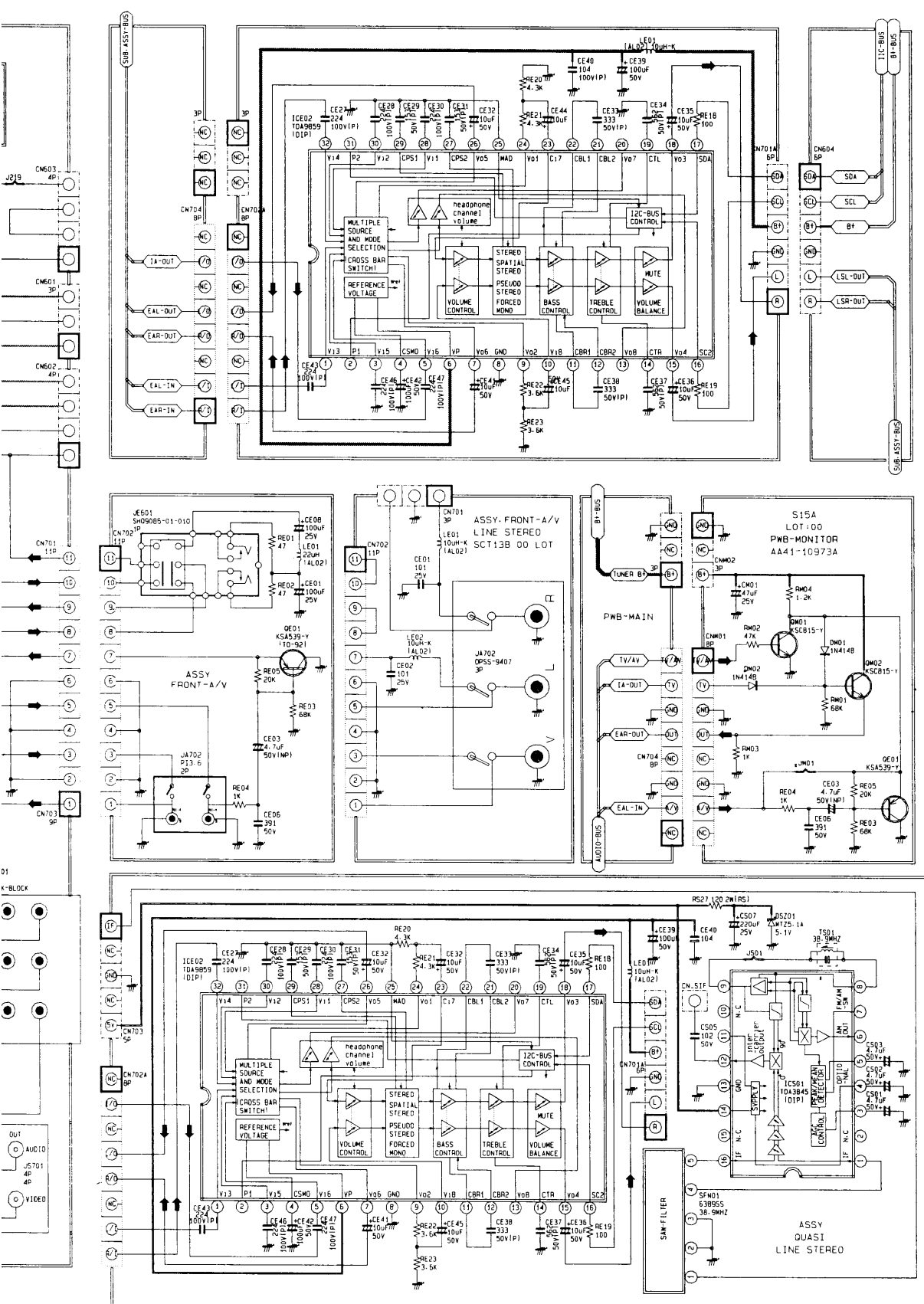


# 11-3 SOUND, EXT-A/V (Middle East / Asia)



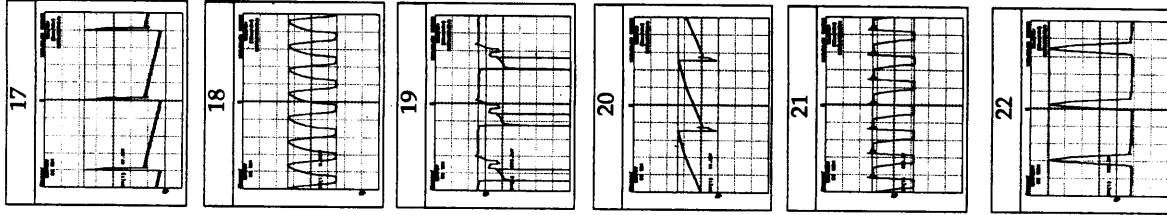
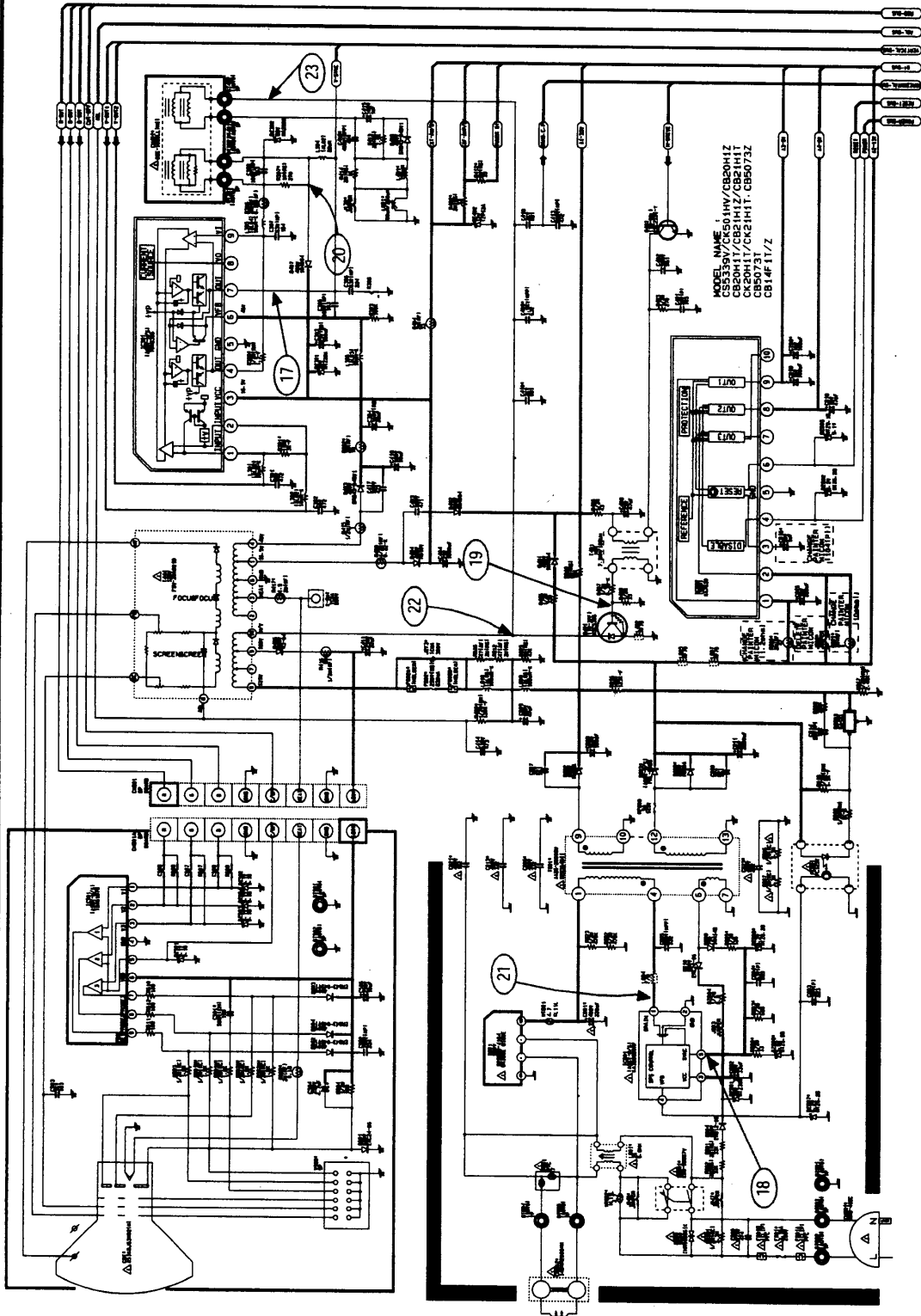
— : Power Line  
— : Signal Line





— : Power Line  
 — : Signal Line

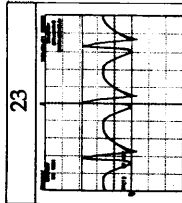
# 11-4 POWER / CRT / VERTICAL / HORIZONTAL



WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" SAFETY PRECAUTION AND PRODUCT SAFETY NOTICE IN MANUAL.

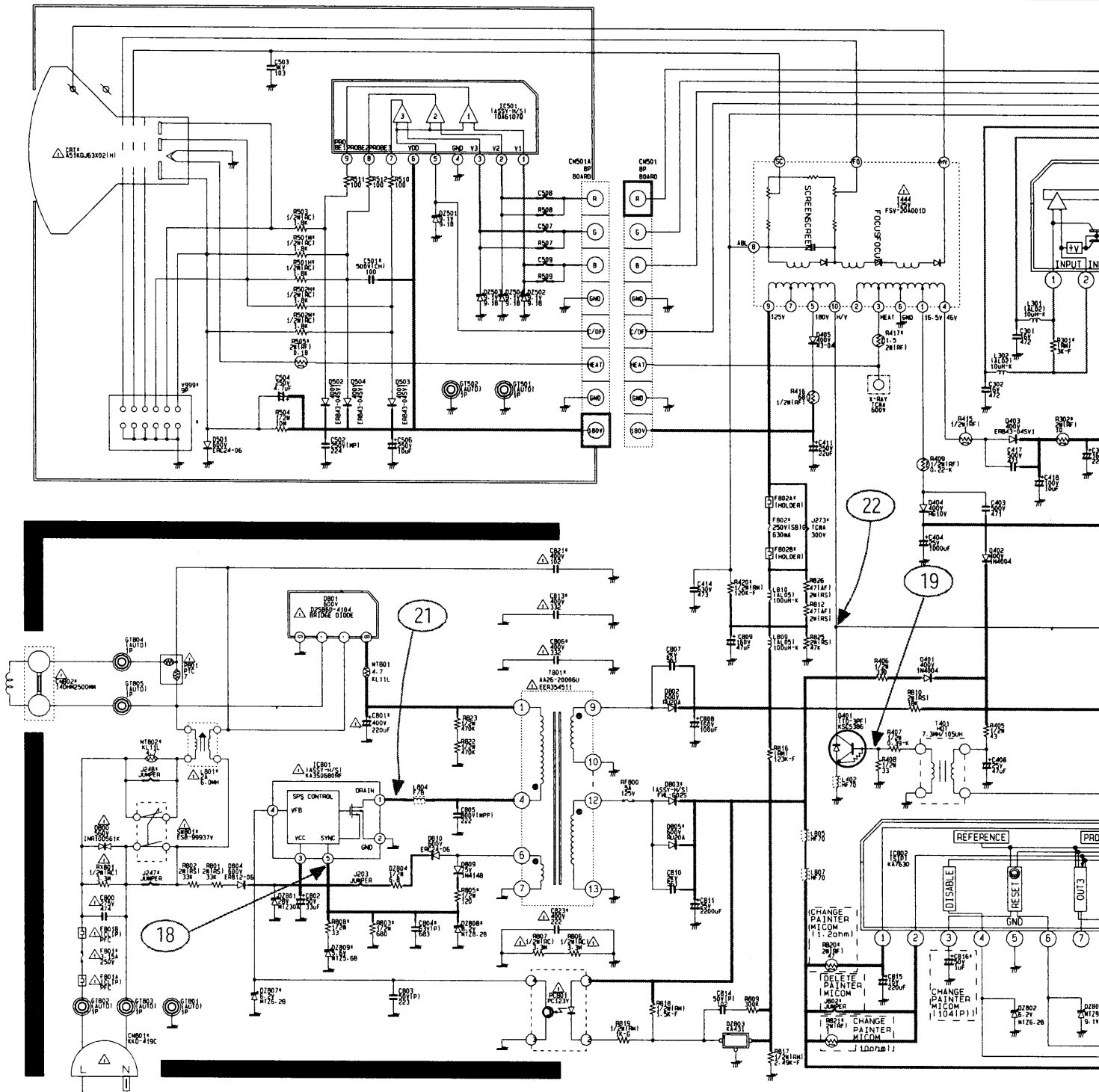
CAUTION : The shaded area in the schematic diagram and parts list designate components which have special characteristics. Important for Safety should be replaced only with types identical to those in the original circuit of specified in the parts list. Before replacing these components, read carefully the PRODUCT SAFETY NOTICE in manual. Do not degrade the safety of the receiver through improper servicing.

WARNING : THIS RECEIVER CONTAINS SAFETY CRITICAL COMPONENTS. ALL PARTS SHOWN IN THE SHADED AREAS OF THE SCHEMATIC ARE SAFETY CRITICAL FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS. REFER TO PARTS LIST FOR EXACT REPLACEMENTS.



— : Power Line  
 — : Signal Line

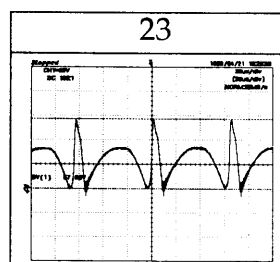
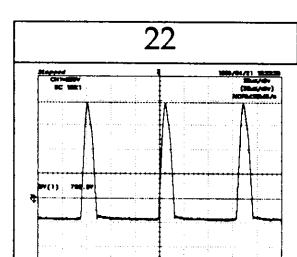
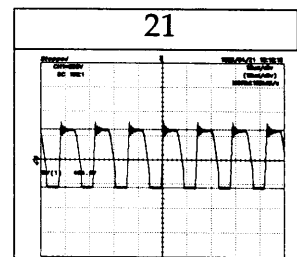
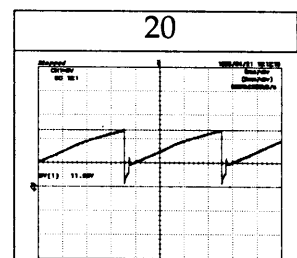
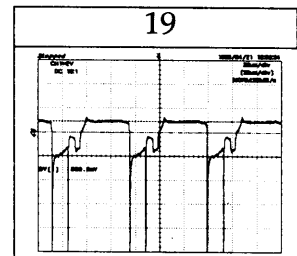
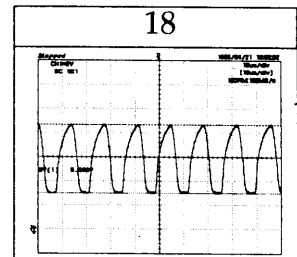
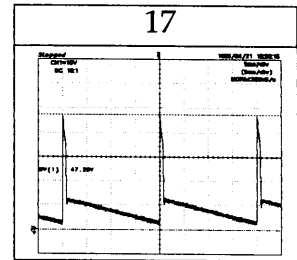
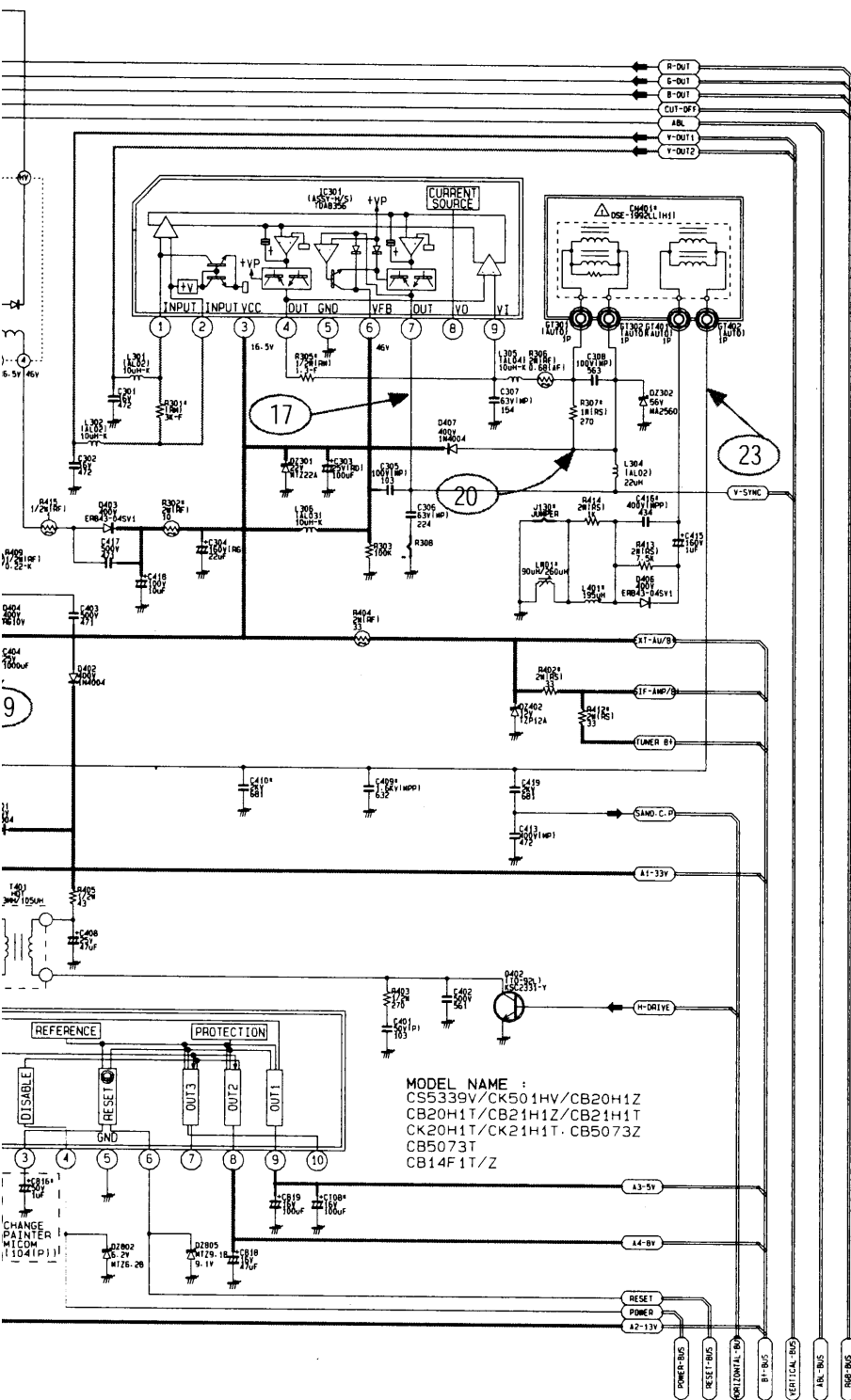
# 11-4 POWER / CRT / VERTICAL / HORIZONTAL



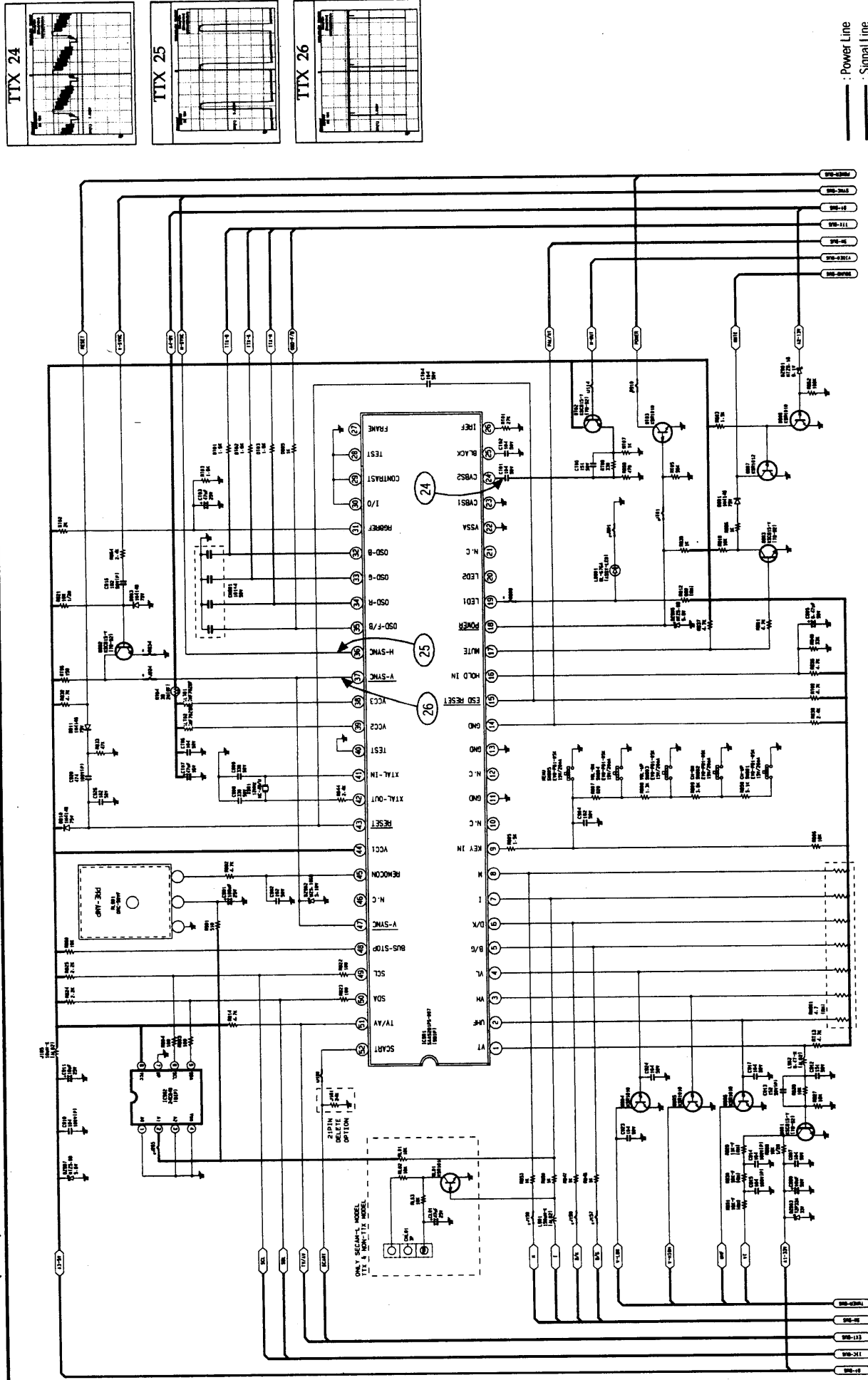
**WARNING :** BEFORE SERVICEING THIS CHASSIS, READ THE 'X-RAY RADIATION PRECAUTION' 'SAFETY PRECAUTION' AND PRODUCT SAFETY NOTICE' IN MANUAL.

**CAUTION :** The shaded area in the schematic diagram and parts list designate components which have special characteristics. Important for Safety should be replaced only with types identical to those in the original circuit of specified in the parts list. Before replacing these components, read carefully the PRODUCT SAFETY NOTICE in manual. Do not degrade the safety of the receiver through improper servicing.

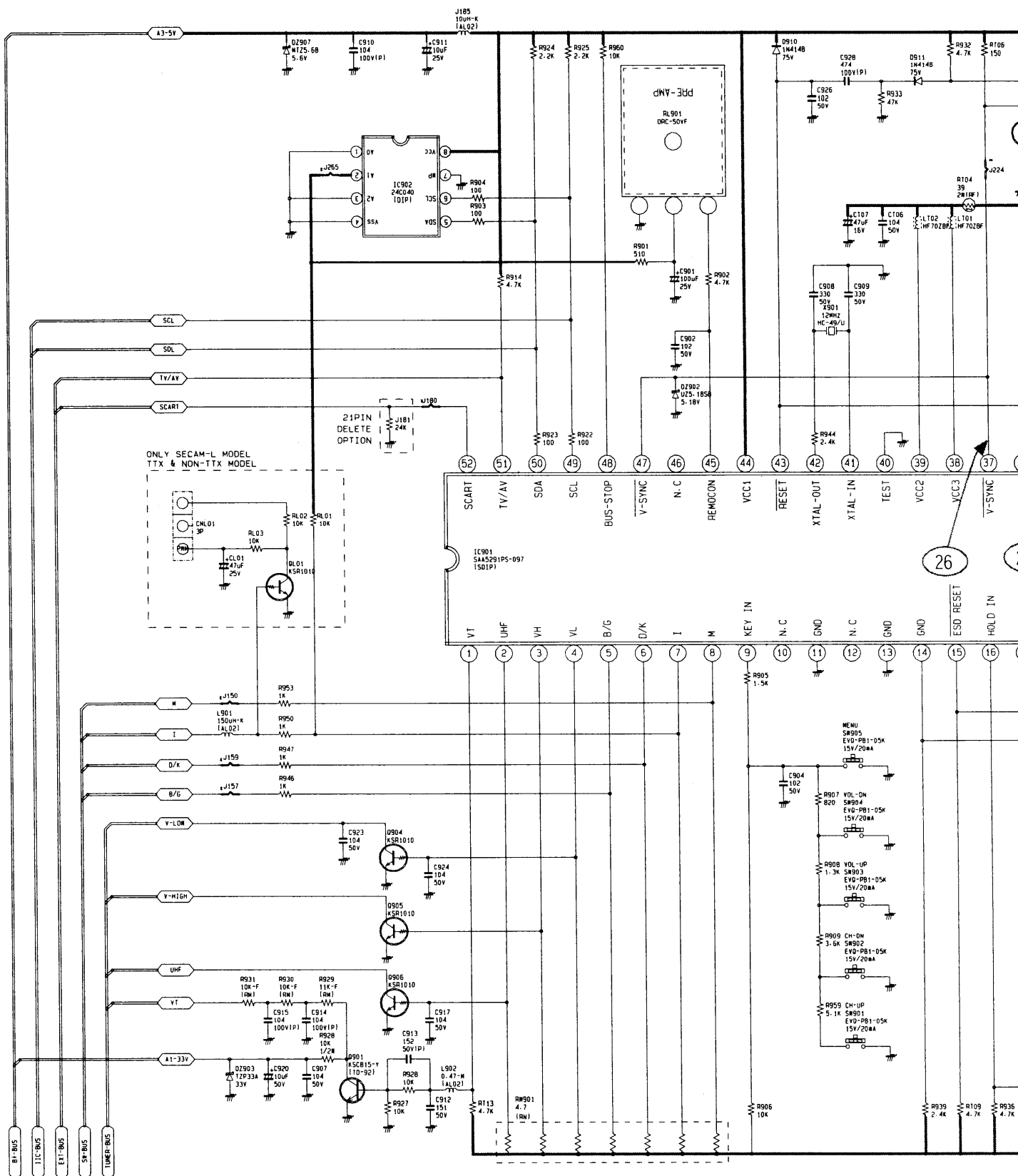
**WARNING :** THIS RECEIVER CONTAINS SAFETY CRITICAL COMPONENTS. THE SHADED AREAS OF THE SCHEMATIC ARE SAFETY CRITICAL. REPLACE SAFETY CRITICAL COMPONENTS WITH RECOMMENDED PARTS. REFER TO PARTS LIST FOR

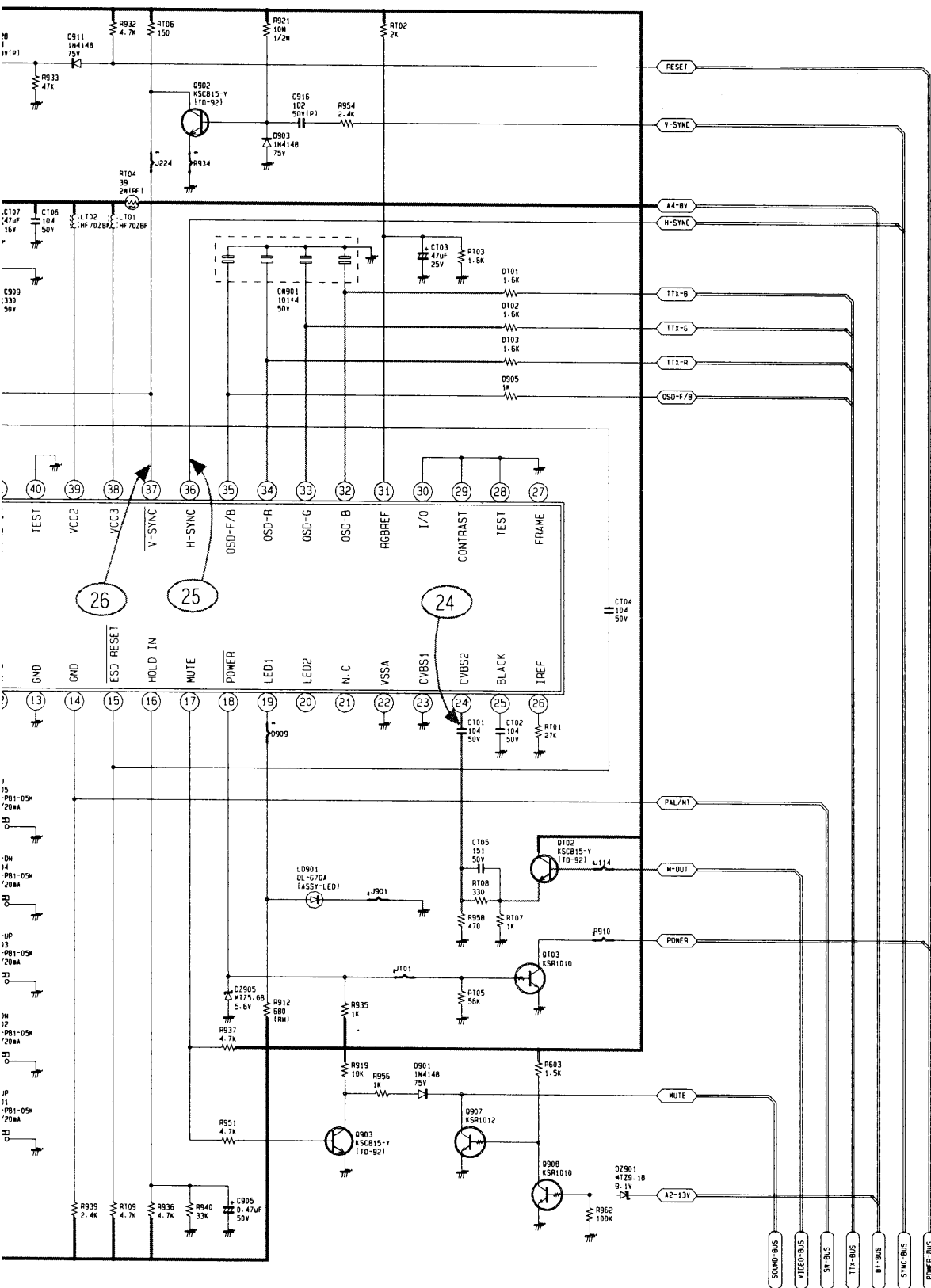


# 11-5 MICOM ( TTX )

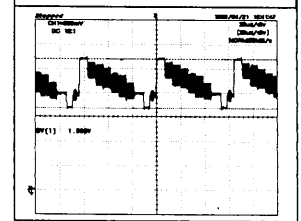


# 11-5 MICOM (TTX)

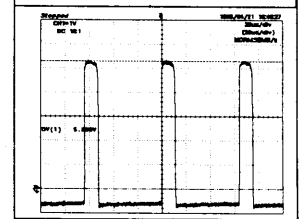




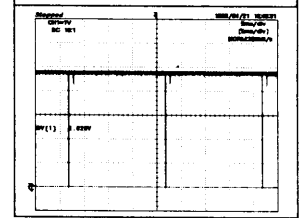
TTX 24



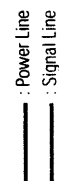
TTX 25



TTX 26



— : Power Line  
 — : Signal Line



# 11-6 MICOM ( NON - TTX )

